Montville Power LLC
74 Lathrop Road
Uncasville, CT 06382

Main Phone # 860.848.9248
Fax # 860.848.6006

March 23, 2015

Ms. Jessica Stefanowicz
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

Subject: **Semi-Annual Site Status Update**
Montville Generating Station, Montville Power LLC, Montville, CT

Dear Ms. Stefanowicz:

Montville Power LLC is submitting the enclosed Semi-Annual Site Status Update for the Montville Generating Station in Montville, Connecticut. This report provides a site status update for the period of July 2014 through December 2015.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement in the submitted information may be punishable as a criminal offense, under section 22a-175 of the Connecticut General Statutes, under section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

Should you have any questions or require further information, please call Mr. Ian Cambridge, at (860) 848-6017.

Thank you,

Marsal Martin
Site Manager
Montville Power LLC

Enclosure(s)

cc: William Warzecha, CTDEEP (e-copy only)
Juan Perez, USEPA (e-copy only)
Bob Spooner, NRG (e-copy only)
Ian Cambridge, NRG Montville (hard copy and e-copy)
Andrew D. Walker, LEP, CB&I (e-copy only)
File (hard copy and e-copy)

CB&I Environmental and Infrastructure, Inc.
150 Royall Street
Canton, MA 02021
Tel: +1 617 589 5111
Fax: +1 617 589 5495
www.CBI.com

March 9, 2015

Project #: 1009644010.01000000

Ms. Jessica Stefanowicz
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

Subject: Semi-Annual Site Status Update
Montville Generating Station
Montville, Connecticut

Dear Ms. Stefanowicz:

On behalf of Montville Power LLC (Montville Power) and its parent company, NRG Energy, Inc. (NRG), CB&I Environmental and Infrastructure, Inc. (CB&I) has prepared this letter to provide a semi-annual site status update for the subject site. A Site Plan is provided as **Figure 1**. In addition, CB&I is providing the Connecticut Department of Energy & Environmental Protection (CTDEEP) with the schedule for continuing environmental activities at the site. This report covers the period of July 2014 through December 2014.

GROUNDWATER MONITORING – SEPTEMBER 2014 AND DECEMBER 2014

Groundwater Sampling

Groundwater monitoring during this reporting period was conducted on September 25 and 26, 2014 and December 4 and 5, 2014 at the locations and for the parameters listed in the table below. During both the September 2014 and December 2014 events, groundwater samples were collected from existing monitoring wells to monitor groundwater concentration trends for metals and to assess compliance with applicable criteria.

Sample Location	Select Metals	CT EPH
AOC3-SB1-MW1	X	
AOC3-SB4-MW2	X	X
AOC5-MW202	X (December only)	X
AOC12-MW301	X	
AOC12-MW305	X	X
AOC12-MW306	X	X
MW-11	X (December only)	
NRG-MW3	X (September only)	
NRG-MW5	X	X
NRG-MW7	X	X
	Total metals (As, Be, Cu, Ni, V, and Zn) by EPA Method 6010	EPH by CTDEEP method

During the two groundwater sampling events, depth to groundwater was measured at each of the monitoring wells using an electronic interface probe (IP). The IP used detects water and light non-aqueous phase liquid (LNAPL), if present, to within accuracy of 0.01 foot. LNAPL was not detected in monitoring wells gauged during these events, which is consistent with previous results. Results of water level monitoring from the September 2014 and December 2014 sampling events are summarized along with prior results in **Table 1**.

CB&I collected groundwater samples from the monitoring wells (with the exception of NRG-MW3) using a modified low flow sampling technique. Well locations are shown on **Figure 1**. Each well was pumped at a rate that produced little or no draw down while parameters including temperature, pH, oxidation reduction potential (ORP), dissolved oxygen (DO) and conductivity were monitored. Groundwater samples were then collected after the parameters stabilized to ensure that the each sample was representative of local aquifer conditions. CB&I collected groundwater samples from monitoring well NRG-MW3 using a purge and recharge approach due to low water levels. During the December 2014 sampling event well NRG-MW3 was found to be dry. As a result, well MW-11, which is located down gradient of NRG-MW3, was sampled as an alternative monitoring point. Based upon previous exceedances of the Remediation Standard Regulations (RSR) criteria in groundwater samples collected at the site, groundwater samples were submitted to Accutest Laboratories of Marlborough, Massachusetts for analysis of select total metals including arsenic, beryllium, copper, nickel, vanadium, and zinc, and extractable petroleum hydrocarbons (EPH) in September and December 2014. Complete laboratory analytical reports are included in **Attachment 1**.

Groundwater Results

Groundwater analytical results from the September and December 2014 sampling events are summarized in **Table 2** (GA groundwater area monitoring wells) and **Table 3** (GB groundwater area monitoring wells). As appropriate, **Tables 2** and **3** compare groundwater analytical results to the Surface Water Protection Criteria (SWPC), Additional SWPC (vanadium), Alternative SWPC (arsenic, beryllium, copper, and zinc), and groundwater protection criteria (GWPC). CTDEEP approved the Additional and Alternative SWPC in their March 13, 2013 letter (CTDEEP, 2013).

The groundwater data from several previous rounds of sampling have indicated that there is little difference between dissolved and total metals concentrations in groundwater at the Montville site (Shaw, 2010). Therefore, at appropriate wells, such as NRG-MW-5, comparison of total metals concentrations to the Water Quality Criteria (WQC) is appropriate to evaluate potential impact to the Bartlett Cove area. This comparison is presented in **Table 4**, and includes both freshwater and saltwater criteria.

The data for September 2014 and December 2014 presented in **Tables 2, 3** and **4** indicate the following:

- Concentrations of arsenic detected during the September 2014 sampling event ranged from non-detect at NRG-MW3 to 62.7 micrograms per liter (ug/l) at well AOC12-MW306. The concentrations of arsenic detected in September 2014 exceeded the appropriate SWPC (10 ug/l) at four of the seven wells were it was present above the reporting limit. Concentrations of arsenic detected during the December 2014 sampling event ranged from non-detect at AOC5-MW202 to 59.9 ug/l at well AOC12-MW306. The concentrations of arsenic detected in December 2014

exceeded the appropriate SWPC at four of the seven wells were it was present above the reporting limit.

- Concentrations of beryllium detected during the September 2014 sampling event ranged from non-detect at several wells to 16.5 ug/l at well AOC3-SB1-MW1. Concentrations of beryllium detected during the December 2014 sampling event ranged from non-detect at several wells to 5.1 ug/l at well AOC3-SB1-MW1. Detected concentrations of beryllium above the reporting limit in the September and December 2014 sampling events were below the appropriate SWPC.
- Concentrations of copper detected during the September 2014 sampling event ranged from non-detect at several wells to 491 ug/l at well AOC3-SB1-MW1. The detected concentration of copper at well AOC3-SB1-MW1 exceeded the appropriate SWPC (310 ug/l). Concentrations of copper detected during the December 2014 sampling event ranged from non-detect at several wells to 91 ug/l at well AOC3-SB1-MW1. Detected concentrations of copper above the reporting limit in the December 2014 sampling event were below the appropriate SWPC.
- Concentrations of nickel detected during the September 2014 sampling event ranged from non-detect at several wells to 130 ug/l at well AOC3-SB1-MW1. Concentrations of nickel detected during the December 2014 sampling event ranged from non-detect at two wells to 168 ug/l at well AOC3-SB1-MW1. Detected concentrations of nickel above the reporting limit in the September and December 2014 sampling events were below the appropriate SWPC.
- Concentrations of vanadium detected during the September 2014 sampling event ranged from non-detect at several wells to 80.6 ug/l at well AOC3-SB1-MW1. Concentrations of vanadium detected during the December 2014 sampling event ranged from non-detect at several wells to 53.3 ug/l at well AOC12-MW306. Detected concentrations of vanadium above the reporting limit in the September and December 2014 sampling events were below the appropriate SWPC.
- Concentrations of zinc detected during the September 2014 sampling event ranged from non-detect at two wells to 860 ug/l at well AOC3-SB1-MW1. Concentrations of zinc detected during the December 2014 sampling event ranged from non-detect at several wells to 267 ug/l at well AOC3-SB1-MW1. Detected concentrations of zinc above the reporting limit in the September and December 2014 sampling events were below the appropriate SWPC.
- At monitoring well NRG-MW5, where comparison to the WQC is appropriate, the concentration of nickel detected in groundwater samples from September and December 2014 exceeded the chronic saltwater criteria. The remaining metals were reported at concentrations below the WQC.
- During the September and December 2014 sampling event, concentrations of poly nuclear aromatic hydrocarbons and hydrocarbon fractions in samples collected from wells AOC5-MW202, NRG-MW5, AOC12-MW305 AOC12-MW306, and NRG-MW7 were not reported above detection limits. Detected concentrations of the C11-C22 aromatic hydrocarbons in groundwater samples collected from well AOC3-SB4-MW2 in September and December 2014 were 200 ug/l and 130 ug/l, respectively. Both concentrations are below SWPC for C11-C22 aromatic hydrocarbons listed in the July 2012 CTDEEP technical support document.

The concentrations of metals detected in samples collected during this reporting period are generally consistent with previous results.

Laboratory Analytical - QA/QC Evaluation

Laboratory analysis completed as part of this assessment was conducted in accordance with CTDEEP's Reasonable Confidence Protocol and the site specific Quality Assurance Project Plan (QAPP). The site specific QAPP was developed for the subject site in accordance with EPA guidance (Shaw, 2011). The QAPP presents the requirements and procedures for conducting field sampling activities and investigations at the site so that (1) the data quality objectives specified for this project are met, (2) the

field sampling protocols are documented and reviewed in a consistent manner, and (3) scientifically valid and defensible data are collected. Field sampling activities discussed above were completed in general compliance with the QAPP that has been generated for the site.

CB&I requested that laboratory analysis be conducted in accordance with the QAPP and CTDEEP's Reasonable Confidence Protocol (CTDEP, 2007). CB&I performed data validation reviews for each laboratory report and documented the results in data validation worksheets. Data validation worksheets are included with the laboratory reports in **Attachment 1**. These worksheets are consistent with the data quality assessment and data usability evaluations detailed in CTDEEP guidance (CTDEP, 2009)

In general, laboratory analyses were completed in accordance with the site QAPP and CTDEEP's Reasonable Confidence Protocol. However, a few minor quality assurance/quality control (QA/QC) issues, which are summarized in the validation worksheets and laboratory report narratives, were identified. These identified QA/QC issues resulted in some detection limits and reported results being qualified as follows:

- In laboratory report MC33943 (September 2014) relative percent difference of a serial dilution sample indicated several metals were outside control limits. However, this was noted in a QC batch sample that was not form the subject site. In addition, the percent difference is considered acceptable due to low initial sample concentration (<50 times instrument detection limit) and no qualification was necessary.

- In laboratory report MC33903 (September 2014) relative percent difference of a serial dilution sample indicated several metals were outside control limits. However, this was noted in a QC batch sample that was not form the subject site. In addition, the percent difference is considered acceptable due to low initial sample concentration (<50 times instrument detection limit) and no qualification was necessary. A significant difference was noted in the analytical results for metals, particularly copper, between the parent and field duplicate sample from well AOC3-SB1-MW1. This indicates questionable precision for this sample and the results were qualified "J" (estimated value).

- In laboratory report MC35624 (December 2014), relative percent difference of a serial dilution sample indicated several metals were outside control limits. However, this was noted in a QC batch sample that was not form the subject site. In addition, the percent difference is considered acceptable due to low initial sample concentration (<50 times instrument detection limit) and no qualification was necessary.

- In laboratory report MC35606 (December 2014), zinc was detected in the equipment blank sample collected. As a result positive detects less than five times the concentration reported in the equipment blank sample were qualified "U" (non-detect). In addition, the relative percent difference of a serial dilution sample indicated several were outside control limits. However, the percent difference is considered acceptable due to low initial sample concentration (<50 times instrument detection limit) and no qualification necessary. The relative percent difference of a serial dilution sample indicated potential matrix interference for zinc. As a result zinc data from NRG-MW7 was qualified "J" (estimated).

In summary, each of the identified issues had no overall effect on the conclusions drawn from the data, and the data is acceptable for the purposes of this submittal.

ENGINEERED CONTROL CONSTRUCTION

During this reporting period, construction began on the approved Engineered Controls for the site. Construction of the gravel Engineered Controls in AOC 3B and AOC 12 began during the week of July 14, 2014. Construction of the gravel control was substantially complete during the week of November 10, 2014. Additionally, patching and repair of the existing asphalt in AOC-3B and AOC-12 to act as Engineered Controls was also conducted during this reporting period. However, asphalt seal coating has not been conducted yet. Those activities were substantially complete during the week of October 27, 2014.

As discussed in the prior status report, construction of the low permeable control in AOC 9 had been delayed while an access agreement was negotiated with CL&P. Those negotiations resulted in an agreement being reached in September 2014. Vegetation clearing in AOC 9 for construction of the low permeable control began during the week of November 3, 2014. Following re-grading and installation of subgrade material in AOC 9, installation of the low permeable material began during the week of December 8, 2014 and was completed in early January 2015. However, installation of the final parts of the low permeable Engineered Control was temporarily suspended on January 12, 2015 due to extreme winter weather conditions. Once work was suspended the construction areas were stabilized for the season, and equipment and personnel were demobilized from the site. A figure that illustrated work areas completed is provided as **Figure 2**. A completion report that provides details of construction and as-built drawings for each Engineered Control is expected to be included with the next site status report.

ADDITIONAL ENVIRONMENTAL ACTIVITIES

Additional environmental activities occurring at the site between July and December 2014 are described below:

- Based on previous discussions with CTDEEP and in conjunction with the revised site-specific Industrial/Commercial Direct Exposure Criteria (I/C DEC) for arsenic, Montville Power submitted an addendum to the approved Engineered Control for the subject site (CB&I, 2014b). Addendum 1, dated September 16, 2014, details controls such as fencing and signage in areas where the site-specific I/C DEC is proposed (AOC 5 and 9). On January 20, 2015, CTDEEP conditionally concurred with the Engineering Control addendum subject to the approval of the I/C DEC discussed below.

- On behalf of NRG, CB&I developed a *Soil Management Plan* for the Montville Power property dated January 30, 2014 (NRG, 2014). The plan is intended to be used for invasive subsurface work with the potential to breach the Engineered Control or that will result in the disruption of soil within the proposed Environmental Land Use Restriction area. The plan identifies the required approvals for such activities including Montville Power, a Connecticut Licensed Environmental Professional, and CTDEEP. The document was provided to CTDEEP with a request for approval. On January 20, 2015, CTDEEP conditionally concurred with the Soil Management Plan.

- Based on an email exchange with USEPA in November 2014, the Self Implementation Plan for AOC 9 was conditionally approved by USEPA in 2013 with the approval of Engineering Control Part 2 by the CTDEEP. Formal acknowledgment of this approval was issued by USEPA in a February 26, 2015 letter.

OUTSTANDING SUBMITTALS

The following items are outstanding submittals for which CTDEEP has not yet provided a response. NRG and CB&I respectfully request approval by April 2015.

- Following discussions with CTDEEP, on March 21, 2014, Montville Power submitted a revised request for approval of a site-specific I/C DEC for arsenic (Shaw, 2014a).
- Montville Power submitted an Inaccessible Soil Exemption for the soil beneath certain permanent structures at the site (Shaw, 2013b).
- In response to a CTDEEP request, CB&I presented CTDEEP with six methods for calculating a revised Alternative SWPC for arsenic in an email dated September 10, 2013.

SITE SCHEDULE

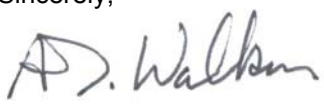
Outlined below is the site schedule that Montville Power and NRG expect to follow through verification.

Activity	Anticipated Date
EC Complete	Q2 2015
Groundwater Monitoring	Q2 & Q4 2015
Site-Wide Remedial Action Plan and Public Notice	Q2 2015
Site-Wide Remedial Action Plan approval	Q3 2015
EC Completion Report	Q3 2015
Post Remediation Monitoring	2015 & 2016
ELUR	2015
Public Notice and Partial Verification with Remediation Standards Regulations	2016

NRG and Montville Power will continue to provide updates on the status of response actions at the subject site on a semi-annual basis as requested by CTDEEP. Plans, submittals, and reports will be copied to the USEPA.

If you have any questions regarding this letter or any other site matter, please do not hesitate to call me at 617-589-6143.

Sincerely,



Andrew D. Walker, LEP, LSP
Project Manager
CB&I Environmental and Infrastructure, Inc.

Phone: 617-589-6143
E-mail Address: Andrew.Walker@CBI.com

Enclosures:

Tables

Table 1 - Groundwater Gauging Data
Table 2 – Groundwater Analytical Results – GA Area 2014
Table 3 – Groundwater Analytical Results – GB Area 2014
Table 4 – Groundwater Analytical Results – NRG-MW5 Total Metals Compared to WQC

Figures

Figure 1 - Site Plan
Figure 2 – Proposed Engineered Controls – Existing Conditions January 12, 2015

Attachments

Attachment 1 - Laboratory Analytical Report for Groundwater with Data Validation Worksheets

cc:

Mr. William Warzecha, CTDEEP (electronic)
Mr. Ian Cambridge, Montville Power LLC (hard copy and electronic)
Mr. Robert Spooner, NRG (electronic only)
Mr. Juan Perez, USEPA (electronic only)
Ms. Kim Tisa, USEPA (electronic only)

REFERENCES

CB&I, 2014a. Revised Site-Specific I/C DEC Approval Request, Montville Generating Station, Montville Power LLC, Montville & Waterford, CT. CB&I Environmental and Infrastructure. September 16, 2014.

CB&I, 2014b. Engineering Control Part 2, Addendum 1, Montville Generating Station, Montville Power LLC, Montville & Waterford, CT. CB&I Environmental and Infrastructure. September 16, 2014.

CTDEP, 2007. Laboratory Quality Assurance and Quality Control Guidance, Reasonable Confidence Protocols Guidance Document. Connecticut Department of Environmental Protection. November 2007.

CTDEP, 2009. Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation. Connecticut Department of Environmental Protection. May 2009.

CTDEEP, 2013. Request for Criteria for Additional Polluting Substances and Alternative Criteria, Montville Station, 74 Lathrop Road, Montville. Connecticut Department of Energy & Environmental Protection. March 13, 2013.

Shaw 2010. Semi-annual Site Status Update and Schedule Adjustment Request, Montville Generating Station, Montville, Connecticut. Shaw Environmental, Inc. February 17, 2010.

NRG, 2014. Soil Management Plan, Montville Generating Station, Montville, Connecticut. NRG Montville Operations, Inc. January 30, 2014.

Shaw, 2013a. Site-Specific I/C DEC Approval Request, Montville Generating Station, Montville Power LLC, Montville & Waterford, CT. Shaw Environmental, Inc. March 21, 2013.

Shaw, 2013b. Notice of Inaccessible Soil Exemptions, Montville Generating Station, Montville, Connecticut. Shaw Environmental, Inc. April 30, 2013.

Shaw, 2013c. Preliminary Technical Impracticability Assessment for Groundwater, Montville Generating Station, Montville Power LLC, Montville, Connecticut. Shaw Environmental, Inc. July 16, 2013

Shaw 2011. Quality Assurance Project Plan, NRG Montville Generating Station. Shaw Environmental, Inc. March 2008, Revised August 2011.

TABLES

TABLE 1
GROUNDWATER GAUGING DATA *01/20/15*
(03/10/14 - 12/05/14)

Montville Power LLC
74 Lathrop Road
Montville, Connecticut

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Notes
AOC12-MW-301	03/10/14	14.44	12.03	--	--	2.41	DTB = 18.40'
AOC12-MW-301	06/12/14	14.44	10.91	--	--	3.53	DTB = 18.69'
AOC12-MW-301	09/25/14	14.44	11.28	--	--	3.16	DTB = 18.42'
AOC12-MW-301	12/04/14	14.44	12.02	--	--	2.42	DTB = 18.47'
AOC12-MW-305	03/10/14	13.57	11.52	--	--	2.05	DTB = 17.98'
AOC12-MW-305	06/11/14	13.57	10.72	--	--	2.85	DTB = 17.93'
AOC12-MW-305	09/25/14	13.57	11.02	--	--	2.55	DTB = 17.95'
AOC12-MW-305	12/05/14	13.57	11.48	--	--	2.09	DTB = 17.96'
AOC12-MW-306	03/11/14	13.82	11.83	--	--	1.99	DTB = 19.00'
AOC12-MW-306	06/12/14	13.82	11.48	--	--	2.34	DTB = 18.97'
AOC12-MW-306	09/25/14	13.82	11.92	--	--	1.90	DTB = 18.99'
AOC12-MW-306	12/04/14	13.82	12.11	--	--	1.71	DTB = 18.97'
AOC3-SB1-MW-1	06/12/14	10.04	7.12	--	--	2.92	DTB = 14.66'
AOC3-SB1-MW-1	09/25/14	10.04	7.60	--	--	2.44	DTB = 14.70'
AOC3-SB1-MW-1	12/04/14	10.04	7.89	--	--	2.15	DTB = 14.67'
AOC3-SB4-MW-2	03/10/14	6.51	4.77	--	--	1.74	DTB = 12.03'
AOC3-SB4-MW-2	06/11/14	6.51	4.02	--	--	2.49	DTB = 12.00'
AOC3-SB4-MW-2	09/25/14	6.51	4.88	--	--	1.63	DTB = 12.02'
AOC3-SB4-MW-2	12/04/14	6.51	4.36	--	--	2.15	DTB = 11.98'
AOC5-MW-202	03/11/14	31.17	8.67	--	--	22.50	DTB = 16.10'
AOC5-MW-202	06/11/14	31.17	8.74	--	--	22.43	DTB = 16.09'
AOC5-MW-202	09/26/14	31.17	9.02	--	--	22.15	DTB = 16.07'
AOC5-MW-202	12/05/14	31.17	8.92	--	--	22.25	DTB = 16.07'
MW-11	03/10/14	13.41	7.14	--	--	6.27	DTB = 11.45'
MW-11	12/04/14	13.41	7.26	--	--	6.15	DTB = 11.35'
NRG-MW-03	03/10/14	54.05	Dry	--	--	NA	
NRG-MW-03	06/11/14	54.05	43.42	--	--	10.63	
NRG-MW-03	09/26/14	54.05	44.77	--	--	9.28	DTB = 46.21'
NRG-MW-03	12/04/14	54.05	Dry	--	--	NA	
NRG-MW-05	03/11/14	10.59	9.97	--	--	0.62	DTB = 20.31'
NRG-MW-05	06/11/14	10.59	10.26	--	--	0.33	DTB = 20.25'
NRG-MW-05	09/26/14	10.59	10.88	--	--	-0.29	DTB = 20.25'
NRG-MW-05	12/05/14	10.59	9.61	--	--	0.98	DTB = 20.33'
NRG-MW-07	03/11/14	8.05	6.88	--	--	1.17	DTB = 17.25'
NRG-MW-07	06/11/14	8.05	7.03	--	--	1.02	DTB = 17.22'
NRG-MW-07	09/25/14	8.05	7.55	--	--	0.50	DTB = 17.28'
NRG-MW-07	12/04/14	8.05	6.98	--	--	1.07	DTB = 17.22'

Notes: -- = Not Detected NA = Not Available NM = Not Measured DTB = Depth to Bottom
<0.01 = Trace amount LNAPL detected

Table 2
Groundwater Analytical Results
GA Area 2014
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	GWPC	SWPC or Alt/Add SWPC (1)	AOC5-MW-202 3/11/2014 Primary	AOC5-MW-202 6/11/2014 Primary	AOC5-MW-202 9/26/2014 Primary	AOC5-MW-202 12/5/2014 Primary	NRG-MW-03 6/12/2014 Primary	NRG-MW-03 9/26/2014 Primary	NRG-MW-05 3/11/2014 Primary	NRG-MW-05 6/11/2014 Primary	NRG-MW-05 9/26/2014 Primary	NRG-MW-05 12/5/2014 Primary	NRG-MW-05 12/5/2014 Duplicate 1
EPH														
2-Methylnaphthalene	(ug/l)	49	NE	<4.00	<5.0	<5.0	<5.0	---	---	<4.00	<5.0	---	<2.00	<2.00
Acenaphthene	(ug/l)	420	NE	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Acenaphthylene	(ug/l)	420	130 (1)	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Anthracene	(ug/l)	2000	1100000	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Benzo(a)anthracene	(ug/l)	0.06	0.3	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Benzo(a)pyrene	(ug/l)	0.2	0.3	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Benzo(b)fluoranthene	(ug/l)	0.08	0.3	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Benzo(ghi)perylene	(ug/l)	210	NE	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Benzo(k)fluoranthene	(ug/l)	0.5	0.3	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Chrysene	(ug/l)	4.8	NE	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Dibenzo(a,h)anthracene	(ug/l)	0.2	NE	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Fluoranthene	(ug/l)	280	3700	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Fluorene	(ug/l)	280	140000	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Indeno(1,2,3-cd)pyrene	(ug/l)	0.5	NE	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Naphthalene	(ug/l)	280	NE	<4.00	<5.0	<5.0	<5.0	---	---	<4.00	<5.0	---	<2.00	<2.00
Phenanthrene	(ug/l)	200	230 (1)	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
Pyrene	(ug/l)	200	110000	<4.0	<5.0	<5.0	<5.0	---	---	<4.0	<5.0	---	<2.0	<2.0
C9-C18 Aliphatics (FID)	(ug/l)	700 (2)	770 (2)	<100	<100	<100	<100	---	---	<100	<100	---	<70	<70
C19-C36 Aliphatics (FID)	(ug/l)	1000 (2)	530 (2)	<100	<100	<100	<100	---	---	<100	<100	---	<70	<70
C11-C22 Aromatics	(ug/l)	140 (2)	250 (2)	<100	<100	<100	<100	---	---	<100	<100	---	<70	<70
Metals (Total)														
Arsenic	(ug/l)	10	10 (1)	---	---	---	<4.0	<2.4	<4.0	4.9	4.3	8.3	9.4	---
Beryllium	(ug/l)	4	20 (1)	---	---	---	<4.0	<0.18	<4.0	0.084BJ	0.093BJ	0.098BJ	0.055BJ	---
Copper	(ug/l)	1300	310 (1)	---	---	---	<25	<3.6	<25	<0.89	<0.89	1.7BJ	0.61BJ	---
Nickel	(ug/l)	100	880	---	---	---	<40	<0.57	2.0BJ	9.5	9.1	12.6	10.3	---
Vanadium	(ug/l)	50	4400 (1)	---	---	---	<10	<0.72	5.3BJ	4	3.3BJ	4.3	4.8	---
Zinc	(ug/l)	5000	8100 (1)	---	---	---	<20	<4.6BU	11.0BJ	<18.9U	<15.1U	19.7	<15.6U	---
CT ETPH														
ETPH	(mg/l)	0.1	0.5 (1)	---	0.0866	---	---	---	---	---	0.0863	---	---	---
Field Parameters														
pH		NE	NE	5.88	5.92	5.95	---	---	---	6.12	6.27	6.26	---	---
ORP	(mv)	NE	NE	235.4	215.9	192.6	---	---	---	146.3	52.5	43.6	---	---
Dissolved Oxygen	(mg/l)	NE	NE	8.34	5.5	5.61	---	---	---	0.53	0.41	0.08	---	---
Specific Conductivity	(uS/cm)	NE	NE	0.163	0.158	0.155	---	---	---	0.107	0.168	0.19	---	---
Temperature	(deg.c)	NE	NE	8.7	11.41	13.43	---	---	---	8.04	11.28	13.56	---	---
Turbidity	(ntu)	NE	NE	0.5	0.6	0.4	---	---	---	0.8	0.3	0.3	---	---

Notes:

SWPC = Surface Water Protection Criteria
GWPC = Groundwater Protection Criteria
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{BOLD} = Result is above appropriate SWPC or GWPC
ug/L = micrograms per liter
mg/L = milligrams per liter
uS/cm = miscroseimens per centimeter
deg. C = degrees celcius
ntu = nephelometric turbidity unit
U = Non-detect per data validation
J = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Organics) or estimated based on data validation
B = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Inorganics)
All results have been validated.

Table 3
Groundwater Analytical Results
GB Area 2014
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC	AOC12-MW-301 3/10/2014 Primary	AOC12-MW-301 6/12/2014 Primary	AOC12-MW-301 9/25/2014 Primary	AOC12-MW-301 12/4/2014 Primary	AOC12-MW-305 3/10/2014 Primary	AOC12-MW-305 6/11/2014 Primary
EPH								
2-Methylnaphthalene	(ug/l)	NE	---	---	---	---	<4.00	<5.0
Acenaphthene	(ug/l)	NE	---	---	---	---	<4.0	<5.0
Acenaphthylene	(ug/l)	130 (1)	---	---	---	---	<4.0	<5.0
Anthracene	(ug/l)	1100000	---	---	---	---	<4.0	<5.0
Benzo(a)anthracene	(ug/l)	0.3	---	---	---	---	<4.0	<5.0
Benzo(a)pyrene	(ug/l)	0.3	---	---	---	---	<4.0	<5.0
Benzo(b)fluoranthene	(ug/l)	0.3	---	---	---	---	<4.0	<5.0
Benzo(ghi)perylene	(ug/l)	NE	---	---	---	---	<4.0	<5.0
Benzo(k)fluoranthene	(ug/l)	0.3	---	---	---	---	<4.0	<5.0
Chrysene	(ug/l)	NE	---	---	---	---	<4.0	<5.0
Dibenzo(a,h)anthracene	(ug/l)	NE	---	---	---	---	<4.0	<5.0
Fluoranthene	(ug/l)	3700	---	---	---	---	<4.0	<5.0
Fluorene	(ug/l)	140000	---	---	---	---	<4.0	<5.0
Indeno(1,2,3-cd)pyrene	(ug/l)	NE	---	---	---	---	<4.0	<5.0
Naphthalene	(ug/l)	NE	---	---	---	---	<4.00	<5.0
Phenanthrene	(ug/l)	230 (1)	---	---	---	---	<4.0	<5.0
Pyrene	(ug/l)	110000	---	---	---	---	<4.0	<5.0
C9-C18 Aliphatics (FID)	(ug/l)	770 (2)	---	---	---	---	<100	<100
C19-C36 Aliphatics (FID)	(ug/l)	530 (2)	---	---	---	---	<100	<100
C11-C22 Aromatics	(ug/l)	250 (2)	---	---	---	---	<100	<100
Metals (Total)								
Arsenic	(ug/l)	10 (1)	6	<2.4	7.6	3.4BJ	**{25.9}**	**{19.1}**
Beryllium	(ug/l)	20 (1)	0.30BJ	4.8	<4.0	1.2BJ	1.1BJ	<0.18
Copper	(ug/l)	310 (1)	<7.0	13.5BJ	<25	4.7BJ	11.9BJ	6.9BJ
Nickel	(ug/l)	880	7.4BJ	113	<40	21.1BJ	31.8BJ	7.1BJ
Vanadium	(ug/l)	4400(1)	4.6BJ	4.3BJ	<10	4.3BJ	<2.8	<0.72
Zinc	(ug/l)	8100(1)	<15.6BU	120	36.7	<30.5U	98.9	34.7
CT ETPH								
ETPH	(mg/l)	0.5(1)	---	---	---	---	---	0.0715J
Field Parameters								
pH		NE	6.47	4.13	4.82	---	6.17	6.19
ORP	(mv)	NE	123.5	241.3	193.8	---	-53.6	8.6
Dissolved Oxygen	(mg/l)	NE	0.44	0.3	1.25	---	0.4	0.44
Specific Conductivity	(us/cm)	NE	0.193	0.88	0.627	---	0.429	0.4
Temperature	(deg.c)	NE	8.88	12.66	18.61	---	9.47	15.74
Turbidity	(ntu)	NE	32.8	0.5	0.3	---	11.2	0.5

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mg/L = milligrams per liter
mS/cm = miscroseimens per centimeter
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J = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Organics) or estimated based on data validation
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All results have been validated.

Table 3
Groundwater Analytical Results
GB Area 2014
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC	AOC12-MW-305 9/25/2014 Primary	AOC12-MW-305 12/5/2014 Primary	AOC12-MW-306 3/11/2014 Primary	AOC12-MW-306 3/11/2014 Duplicate 1	AOC12-MW-306 6/12/2014 Primary	AOC12-MW-306 6/12/2014 Duplicate 1
EPH								
2-Methylnaphthalene	(ug/l)	NE	<5.0	<2.00	<4.00	<4.00	<5.0	<5.0
Acenaphthene	(ug/l)	NE	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Acenaphthylene	(ug/l)	130 (1)	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Anthracene	(ug/l)	1100000	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Benzo(a)anthracene	(ug/l)	0.3	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Benzo(a)pyrene	(ug/l)	0.3	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Benzo(b)fluoranthene	(ug/l)	0.3	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Benzo(ghi)perylene	(ug/l)	NE	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Benzo(k)fluoranthene	(ug/l)	0.3	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Chrysene	(ug/l)	NE	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Dibenzo(a,h)anthracene	(ug/l)	NE	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Fluoranthene	(ug/l)	3700	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Fluorene	(ug/l)	140000	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Indeno(1,2,3-cd)pyrene	(ug/l)	NE	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Naphthalene	(ug/l)	NE	<5.0	<2.00	<4.00	<4.00	<5.0	<5.0
Phenanthrene	(ug/l)	230 (1)	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
Pyrene	(ug/l)	110000	<5.0	<2.0	<4.0	<4.0	<5.0	<5.0
C9-C18 Aliphatics (FID)	(ug/l)	770 (2)	<100	<70	<100	<100	<100	<100
C19-C36 Aliphatics (FID)	(ug/l)	530 (2)	<100	<70	<100	<100	<100	<100
C11-C22 Aromatics	(ug/l)	250 (2)	<100	<70	<100	<100	<100	<100
Metals (Total)								
Arsenic	(ug/l)	10 (1)	**{39.8}**	**{30.5}**	**{60.6}**	**{59.8}**	**{50.6}**	---
Beryllium	(ug/l)	20 (1)	<4.0	1.2BJ	0.30BJ	0.30BJ	<0.18	---
Copper	(ug/l)	310 (1)	<25	33.4	<7.0	<7.0	<3.6	---
Nickel	(ug/l)	880	<40	27.0BJ	23.0BJ	22.4BJ	24.9BJ	---
Vanadium	(ug/l)	4400(1)	<10	0.90BJ	28.5	28.7	22.1	---
Zinc	(ug/l)	8100(1)	<20	<81.7U	68.4	66.5	69	---
CT ETPH								
ETPH	(mg/l)	0.5(1)	---	---	---	---	0.0899	0.082
Field Parameters								
pH		NE	6.64	---	5.71	---	5.4	---
ORP	(mv)	NE	-68.6	---	105.9	---	100.7	---
Dissolved Oxygen	(mg/l)	NE	0.47	---	0.29	---	0.34	---
Specific Conductivity	(us/cm)	NE	0.359	---	0.344	---	0.437	---
Temperature	(deg.c)	NE	16.18	---	12.04	---	13.52	---
Turbidity	(ntu)	NE	0.3	---	3.7	---	0.4	---

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mg/L = milligrams per liter
mS/cm = miscroseimens per centimeter
deg. C = degrees celcius
ntu = nephelometric turbidity unit
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All results have been validated.

Table 3
Groundwater Analytical Results
GB Area 2014
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC	AOC12-MW-306 9/25/2014 Primary	AOC12-MW-306 9/25/2014 Duplicate 1	AOC12-MW-306 12/4/2014 Primary	AOC3-SB1-MW-1 6/12/2014 Primary	AOC3-SB1-MW-1 6/12/2014 Duplicate 1	AOC3-SB1-MW-1 9/25/2014 Primary	AOC3-SB1-MW-1 9/25/2014 Duplicate 1
EPH									
2-Methylnaphthalene	(ug/l)	NE	<5.0	<5.0	<2.00	---	---	---	---
Acenaphthene	(ug/l)	NE	<5.0	<5.0	<2.0	---	---	---	---
Acenaphthylene	(ug/l)	130 (1)	<5.0	<5.0	<2.0	---	---	---	---
Anthracene	(ug/l)	1100000	<5.0	<5.0	<2.0	---	---	---	---
Benzo(a)anthracene	(ug/l)	0.3	<5.0	<5.0	<2.0	---	---	---	---
Benzo(a)pyrene	(ug/l)	0.3	<5.0	<5.0	<2.0	---	---	---	---
Benzo(b)fluoranthene	(ug/l)	0.3	<5.0	<5.0	<2.0	---	---	---	---
Benzo(ghi)perylene	(ug/l)	NE	<5.0	<5.0	<2.0	---	---	---	---
Benzo(k)fluoranthene	(ug/l)	0.3	<5.0	<5.0	<2.0	---	---	---	---
Chrysene	(ug/l)	NE	<5.0	<5.0	<2.0	---	---	---	---
Dibenzo(a,h)anthracene	(ug/l)	NE	<5.0	<5.0	<2.0	---	---	---	---
Fluoranthene	(ug/l)	3700	<5.0	<5.0	<2.0	---	---	---	---
Fluorene	(ug/l)	140000	<5.0	<5.0	<2.0	---	---	---	---
Indeno(1,2,3-cd)pyrene	(ug/l)	NE	<5.0	<5.0	<2.0	---	---	---	---
Naphthalene	(ug/l)	NE	<5.0	<5.0	<2.00	---	---	---	---
Phenanthrene	(ug/l)	230 (1)	<5.0	<5.0	<2.0	---	---	---	---
Pyrene	(ug/l)	110000	<5.0	<5.0	<2.0	---	---	---	---
C9-C18 Aliphatics (FID)	(ug/l)	770 (2)	<100	<100	<70	---	---	---	---
C19-C36 Aliphatics (FID)	(ug/l)	530 (2)	<100	<100	<70	---	---	---	---
C11-C22 Aromatics	(ug/l)	250 (2)	<100	<100	<70	---	---	---	---
Metals (Total)									
Arsenic	(ug/l)	10 (1)	**{62.7}**	---	**{59.9}**	**{106}**	**{495}**	<4.0UJ	**{47.0}J**
Beryllium	(ug/l)	20 (1)	<4.0	---	0.70BJ	3.5BJ	6.1	5.4J	16.5J
Copper	(ug/l)	310 (1)	<25	---	<3.6	64.9	208	59.5J	**{491}J**
Nickel	(ug/l)	880	<40	---	39.2BJ	96.3	221	130J	601J
Vanadium	(ug/l)	4400(1)	27.9	---	53.3	69.8	278	10.9J	80.6J
Zinc	(ug/l)	8100(1)	47.6	---	<89.1U	161	328	235J	860J
CT ETPH									
ETPH	(mg/l)	0.5(1)	---	---	---	---	---	---	---
Field Parameters									
pH		NE	5.08	---	---	2.6	---	2.68	---
ORP	(mv)	NE	152.9	---	---	479.8	---	385.1	---
Dissolved Oxygen	(mg/l)	NE	1.25	---	---	0.4	---	1.92	---
Specific Conductivity	(us/cm)	NE	0.328	---	---	1.899	---	3.866	---
Temperature	(deg.c)	NE	15.61	---	---	14.68	---	19.2	---
Turbidity	(ntu)	NE	0.3	---	---	0.4	---	0.3	---

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ug/L = micrograms per liter
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deg. C = degrees celcius
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All results have been validated.

Table 3
Groundwater Analytical Results
GB Area 2014
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC	AOC3-SB1-MW-1 12/4/2014 Primary	AOC3-SB1-MW-1 12/4/2014 Duplicate 1	AOC3-SB4-MW-2 3/10/2014 Primary	AOC3-SB4-MW-2 6/11/2014 Primary	AOC3-SB4-MW-2 9/25/2014 Primary	AOC3-SB4-MW-2 12/4/2014 Primary	MW-11 3/11/2014 Primary
EPH									
2-Methylnaphthalene	(ug/l)	NE	---	---	<4.00	<5.0	<5.0	<2.00	---
Acenaphthene	(ug/l)	NE	---	---	<4.0	<5.0	<5.0	<2.0	---
Acenaphthylene	(ug/l)	130 (1)	---	---	<4.0	<5.0	<5.0	<2.0	---
Anthracene	(ug/l)	1100000	---	---	<4.0	<5.0	<5.0	<2.0	---
Benzo(a)anthracene	(ug/l)	0.3	---	---	<4.0	<5.0	<5.0	<2.0	---
Benzo(a)pyrene	(ug/l)	0.3	---	---	<4.0	<5.0	<5.0	<2.0	---
Benzo(b)fluoranthene	(ug/l)	0.3	---	---	<4.0	<5.0	<5.0	<2.0	---
Benzo(ghi)perylene	(ug/l)	NE	---	---	<4.0	<5.0	<5.0	<2.0	---
Benzo(k)fluoranthene	(ug/l)	0.3	---	---	<4.0	<5.0	<5.0	<2.0	---
Chrysene	(ug/l)	NE	---	---	<4.0	<5.0	<5.0	<2.0	---
Dibenzo(a,h)anthracene	(ug/l)	NE	---	---	<4.0	<5.0	<5.0	<2.0	---
Fluoranthene	(ug/l)	3700	---	---	<4.0	<5.0	<5.0	<2.0	---
Fluorene	(ug/l)	140000	---	---	<4.0	<5.0	<5.0	<2.0	---
Indeno(1,2,3-cd)pyrene	(ug/l)	NE	---	---	<4.0	<5.0	<5.0	<2.0	---
Naphthalene	(ug/l)	NE	---	---	<4.00	<5.0	<5.0	3.2JJ	---
Phenanthrene	(ug/l)	230 (1)	---	---	<4.0	<5.0	<5.0	<2.0	---
Pyrene	(ug/l)	110000	---	---	<4.0	<5.0	<5.0	<2.0	---
C9-C18 Aliphatics (FID)	(ug/l)	770 (2)	---	---	<100	<100	<100	<71	---
C19-C36 Aliphatics (FID)	(ug/l)	530 (2)	---	---	<100	<100	<100	<71	---
C11-C22 Aromatics	(ug/l)	250 (2)	---	---	199	121	200	130	---
Metals (Total)									
Arsenic	(ug/l)	10 (1)	**{11.1}**	**{12.0}**	**{21.3}**	5.1	5.1	2.9BJ	<2.9
Beryllium	(ug/l)	20 (1)	5.1	3.3BJ	<0.25	<0.18	<4.0	<0.18	<0.25
Copper	(ug/l)	310 (1)	91	10.8BJ	<7.0	<3.6	<25	<3.6	<7.0
Nickel	(ug/l)	880	168	93.9	30.2BJ	9.1BJ	<40	<0.57	95.0
Vanadium	(ug/l)	4400(1)	23.2	16.9	<2.8	1.1BJ	<10	<0.72	<2.8
Zinc	(ug/l)	8100(1)	267	167	58.3	34.1	<20	<13.1BU	9.6B
CT ETPH									
ETPH	(mg/l)	0.5(1)	---	---	---	0.421	---	---	---
Field Parameters									
pH		NE	---	---	6.48	6.58	6.3	---	5.21
ORP	(mv)	NE	---	---	-55.6	51.2	-35.2	---	264.8
Dissolved Oxygen	(mg/l)	NE	---	---	0.71	2.56	1.14	---	10.35
Specific Conductivity	(us/cm)	NE	---	---	0.239	0.121	0.251	---	0.173
Temperature	(deg.c)	NE	---	---	7.38	14.88	18.81	---	9.2
Turbidity	(ntu)	NE	---	---	1.7	0.5	0.4	---	0.4

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ug/L = micrograms per liter
mg/L = milligrams per liter
mS/cm = miscroseimens per centimeter
deg. C = degrees celcius
ntu = nephelometric turbidity unit
U = Non-detect per data validation
J = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Organics) or estimated based on data validation
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Table 3
Groundwater Analytical Results
GB Area 2014
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC	MW-11 12/4/2014 Primary	NRG-MW-07 3/11/2014 Primary	NRG-MW-07 6/11/2014 Primary	NRG-MW-07 9/25/2014 Primary	NRG-MW-07 12/4/2014 Primary
EPH							
2-Methylnaphthalene	(ug/l)	NE	---	<4.00	<5.1	<5.1	<2.00
Acenaphthene	(ug/l)	NE	---	<4.0	<5.1	<5.1	<2.0
Acenaphthylene	(ug/l)	130 (1)	---	<4.0	<5.1	<5.1	<2.0
Anthracene	(ug/l)	1100000	---	<4.0	<5.1	<5.1	<2.0
Benzo(a)anthracene	(ug/l)	0.3	---	<4.0	<5.1	<5.1	<2.0
Benzo(a)pyrene	(ug/l)	0.3	---	<4.0	<5.1	<5.1	<2.0
Benzo(b)fluoranthene	(ug/l)	0.3	---	<4.0	<5.1	<5.1	<2.0
Benzo(ghi)perylene	(ug/l)	NE	---	<4.0	<5.1	<5.1	<2.0
Benzo(k)fluoranthene	(ug/l)	0.3	---	<4.0	<5.1	<5.1	<2.0
Chrysene	(ug/l)	NE	---	<4.0	<5.1	<5.1	<2.0
Dibenzo(a,h)anthracene	(ug/l)	NE	---	<4.0	<5.1	<5.1	<2.0
Fluoranthene	(ug/l)	3700	---	<4.0	<5.1	<5.1	<2.0
Fluorene	(ug/l)	140000	---	<4.0	<5.1	<5.1	<2.0
Indeno(1,2,3-cd)pyrene	(ug/l)	NE	---	<4.0	<5.1	<5.1	<2.0
Naphthalene	(ug/l)	NE	---	<4.00	<5.1	<5.1	<2.00
Phenanthrene	(ug/l)	230 (1)	---	<4.0	<5.1	<5.1	<2.0
Pyrene	(ug/l)	110000	---	<4.0	<5.1	<5.1	<2.0
C9-C18 Aliphatics (FID)	(ug/l)	770 (2)	---	<100	<100	<100	<70
C19-C36 Aliphatics (FID)	(ug/l)	530 (2)	---	<100	<100	<100	<70
C11-C22 Aromatics	(ug/l)	250 (2)	---	<100	<100	<100	<70
Metals (Total)							
Arsenic	(ug/l)	10 (1)	<2.4	**{16.0}**	**{14.1}**	**{30.7}**	**{16.7}**
Beryllium	(ug/l)	20 (1)	<0.40	<0.25	<0.18	<4.0	<0.18
Copper	(ug/l)	310 (1)	<3.6	<7.0	<3.6	<25	<3.6
Nickel	(ug/l)	880	29.7	11.5BJ	17.4BJ	<40	14.8BJ
Vanadium	(ug/l)	4400(1)	1.4B	<2.8	<0.72	<10	<0.72
Zinc	(ug/l)	8100(1)	20.9	69.4	86.3	41.4	115J
CT ETPH							
ETPH	(mg/l)	0.5(1)	---	---	0.101	---	---
Field Parameters							
pH		NE	5.45	6.67	6.81	6.45	---
ORP	(mv)	NE	-20.1	3.9	-18.4	-79	---
Dissolved Oxygen	(mg/l)	NE	3.94	0.49	0.23	0.55	---
Specific Conductivity	(us/cm)	NE	0.232	1.237	1.565	2.854	---
Temperature	(deg.c)	NE	11.56	10.14	13.53	17.07	---
Turbidity	(ntu)	NE	0.3	22.6	0.4	0.3	---

Notes:
SWPC = Surface Water Protection Criteria
--- = Constituent not analyzed for.
NE = None Established.
(1)= Approved Alternative and Additional SWPC in March 13, 2013 CTDEEP letter
(2) = July 2012 CTDEEP Technical Support Document
{BOLD} = Result is above SWPC, Additional or Alternative SWPC
ug/L = micrograms per liter
mg/L = milligrams per liter
mS/cm = miscroseimens per centimeter
deg. C = degrees celcius
ntu = nephelometric turbidity unit
U = Non-detect per data validation
J = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Organics) or estimated based on data validation
B = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Inorganics)
All results have been validated.

Table 4
Groundwater Analytical Results
NRG-MW5 total Metals Compared to WQC
Montville Power LLC
Montville, Connecticut

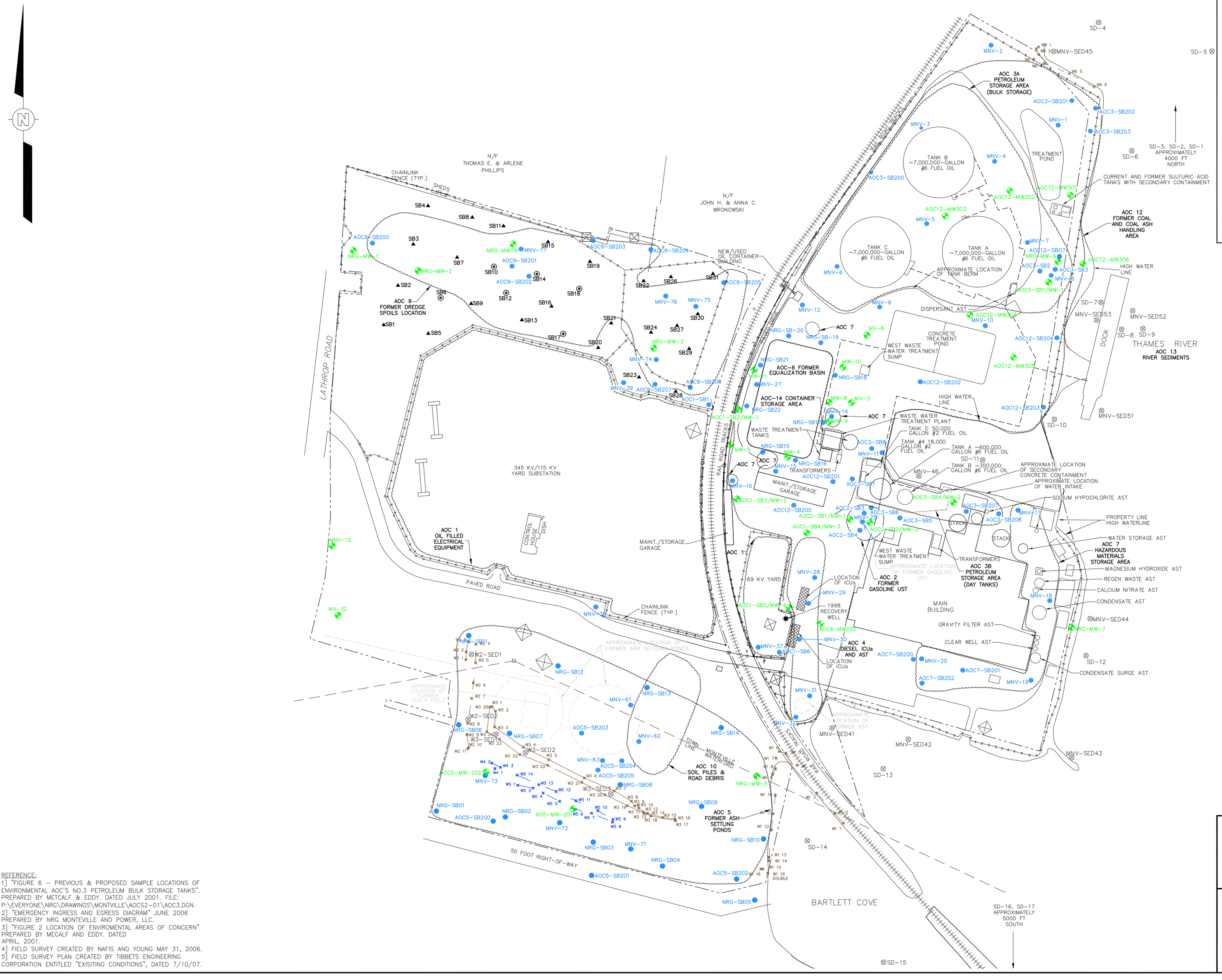
Constituent (ug/L)	WQC Chronic Fresh	WQC Chronic Salt	NRG-MW-05 6/16/2011	NRG-MW-05 9/26/2011	NRG-MW-05 9/28/2012	NRG-MW-05 5/8/2013	NRG-MW-05 3/11/2014	NRG-MW-05 6/11/2014	NRG-MW-05 9/26/2014	NRG-MW-05 12/5/2014
Arsenic	150	36	<4.0	1.8BJ	2.1BJ	<2.9	4.9	4.3	8.3	9.4
Beryllium	NE	NE	<4.0	<0.24	<0.28	<0.25	0.084BJ	0.093B	0.098BJ	0.055BJ
Copper	4.8	3.1	<25	<2.5	**{3.2}BJ**	<7.0	<0.89	<0.89	1.7BJ	0.61BJ
Nickel	28.9	8.2	<40	**{9.9}BJ**	**{9.0}BJ**	**{11.5}BJ**	**{9.5}**	**{9.1}**	**{12.6}**	**{10.3}**
Vanadium	NE	NE	<10	<1.5	1.5BJ	<2.8	4	3.3B	4.3	4.8
Zinc	65	81	20	25.3	<23.7U	<23.3U	<18.9U	15.1	19.7	<15.6U

Notes:
WQC = Numerical Water Quality Criteria for Chemical Constituents
ug/L = micrograms per liter
B = Less than detection limit (inorganics), lab qualifier
J - Less than detection limit, validation qualifier
U = Result determined to be non-detect at indicated detection limit, based on validation protocol.
{ } = Result is greater than WQC Chronic Fresh or WQC Chronic Salt
NE = None established

FIGURES

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
STOUGHTON	CD 12/29/12	RC 12/29/12	-- --	100964400-SITEPLAN

File: T:\MISC\N.R.G\MONTVILLE\100964400-SITEPLAN.dwg Layout: SITE PLAN User: chris.desiato Jun 13, 2013 - 6:17pm



REFERENCE:
1] "FIGURE 6 – PREVIOUS & PROPOSED SAMPLE LOCATIONS OF ENVIRONMENTAL AOC'S NO.3 PETROLEUM BULK STORAGE TANKS". PREPARED BY METCALF & EDDY. DATED JULY 2001. FILE: P:\EVERYONE\NRG\DRAWINGS\MONTVILLE\AOCS2-01\AOC3.DGN.
2] "EMERGENCY INGRESS AND EGRESS DIAGRAM" JUNE 2006 PREPARED BY NRG MONTEVILLE AND POWER, LLC.
3] "FIGURE 2 LOCATION OF ENVIROMENTAL AREAS OF CONCERN" PREPARED BY MECALF AND EDDY. DATED APRIL, 2001.
4] FIELD SURVEY CREATED BY NAFIS AND YOUNG MAY 31, 2006.
5] FIELD SURVEY PLAN CREATED BY TIBBETS ENGINEERING CORPORATION ENTITLED "EXISITING CONDITIONS", DATED 7/10/07.

SHAW ENVIRONMENTAL, INC.,
A CB&I COMPANY
150 ROYALL STREET
CANTON, MASSACHUSETTS
(617) 589-5111

FIGURE 1

SITE PLAN

MONTVILLE GENERATING STATION
MONTVILLE AND WATERFORD, CONNECTICUT

OFFICE Pittsburgh, PA

DRAWING NUMBER 1009644007-D12

SUBSTANTIALLY COMPLETE NOVEMBER 2014

4" THICK AGGREGATE ENGINEERED CONTROL (3/7)

APPROXIMATE LIMITS OF POTENTIAL BIOMASS REPOWERING PROJECT (WILL BE COVERED WITH NEW STRUCTURES, PAVEMENT, OR AGGREGATE PER ENGINEERING CONTROL)

APPROXIMATE LOCATION OF UNDERGROUND HIGH VOLTAGE ELECTRICAL LINE. LINE SHALL BE ACCURATELY LOCATED BY CONTRACTOR AND EXCAVATION IN THE AREA APPROVED BY NRG AND POSSIBLY OTHERS

AOC 9 FORMER DREDGE SPOILS LOCATION

AOC 3A PETROLEUM STORAGE AREA (BULK STORAGE)

AOC 12 FORMER COAL AND COAL ASH HANDLING AREA

(15/8) AGGREGATE ENGINEERED CONTROL ALONG SHORELINE

(4/7) LOW PERMEABILITY ENGINEERED CONTROL

LOW PERMEABILITY MATERIAL INSTALLATION COMPLETE JANUARY 2015

345 KV/115 KV YARD SUBSTATION

AOC 1 OIL FILLED ELECTRICAL EQUIPMENT

AOC 6 FORMER EQUALIZATION BASIN

AOC 14 CONTAINER STORAGE AREA

AOC 13 RIVER SEDIMENTS

(2/7) ASPHALT PAVEMENT ENGINEERED CONTROL

SUBSTANTIALLY COMPLETE NOVEMBER 2014

AOC 2 FORMER GASOLINE UST

AOC 3B PETROLEUM STORAGE AREA (DAY TANKS)

AOC 7 HAZARDOUS MATERIALS STORAGE AREA

SUBSTANTIALLY COMPLETE OCTOBER 2014 EXCEPT SEAL COAT

AOC 4 DIESEL ICUs AND AST

AOC 10 SOIL PILES & ROAD DEBRIS

AOC 5 FORMER ASH SETTLING PONDS

REMAINDER OF ENGINEERED CONTROLS TO BE INSTALLED IN SPRING OF 2015

DRAWING UPDATED FOR EXISTING CONDITIONS JANUARY 12, 2015 AT WINTER SHUTDOWN

LATHROP ROAD

THAMES RIVER

BARTLETT COVE

LEGEND

- EXISTING CONTOUR
- PROPERTY BOUNDARY
- EXISTING PLANT PIPING
- EXISTING FENCE LINE
- EXISTING TREE LINE
- HIGH WATER LINE
- ELECTRICAL TOWER
- ELECTRIC LINE
- OVERHEAD ELECTRIC LINE CLEARANCE AREA
- AREA OF CONCERN (AOC)
- EXISTING ASPHALT ENGINEERED CONTROL (CRACK SEAL AND REPAIR AS REQUIRED)
- EXISTING ASPHALT ENGINEERED CONTROL (REPLACE)
- EXISTING ASPHALT ENGINEERED CONTROL (LARGE CRACK REPAIR)
- PROPOSED 4" THICK AGGREGATE ENGINEERED CONTROL
- PROPOSED LOW PERMEABILITY ENGINEERED CONTROL
- PROPOSED 8" RIPRAP
- PROPOSED CURB
- (2/7) INDICATES DETAIL NUMBER AND SHEET WHERE DETAIL IS DRAWN

NOTES:

1. CONTRACTOR SHALL INSTALL GRADE STAKES AT 1 PER 2500 FT^2 TO VERIFY THICKNESS OF AGGREGATE COVER.
2. AGGREGATE ENGINEERED CONTROL SHALL BE TYPE 1 STONE WEST OF COASTAL FENCE.
3. RIPRAP – MATCH EXISTING ON SITE

SCALE 0 100 200 300 FEET

REFERENCES:

1. "FIGURE 6 – PREVIOUS & PROPOSED SAMPLE LOCATIONS OF ENVIRONMENTAL AOC'S NO.3 PETROLEUM BULK STORAGE TANKS". PREPARED BY METCALF & EDDY. DATED JULY 2001. FILE: P:\EVERYONE\NRG\DRAWINGS\MONTVILLE\AOCS2-01\AOC3.DGN.
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5. FIELD SURVEY PLAN CREATED BY TIBBETS ENGINEERING CORPORATION ENTITLED "EXISITING CONDITIONS", DATED: 7/10/07.

REV	DESCRIPTION / ISSUE	DATE	APPROVED
A	CHANGED LOGO AND PREPARED FINAL FOR CTDEEP SUBMITTAL	2/21/13	P.Farrington
1	CHANGED CROSSHATCH, REVISED UTILITIES TO BE LOCATED	5/7/13	P.Farrington

Shaw Environmental, a CB&I Company
150 Royall Street
Canton MA. 02021

DESIGNED BY:	J.R. Faison
DRAWN BY:	B. O'Connor
CHECKED BY:	A. Walker
APPROVED BY:	P. Farrington
DATE:	1/22/13
SCALE:	AS SHOWN
DRAWING NO.	1009644007-D12
SHEET NO.	2

NRG ENERGY, INC.
MONTVILLE POWER LLC
UNCASVILLE, CONNECTICUT

PROPOSED ENGINEERED CONTROLS
MONTVILLE GENERATING STATION
MONTVILLE & WATERFORD, CONNECTICUT

File: O:\Shaw Offices - CAD Files\Stoughton, MA\NRG\Montville\1009644007set (4-15-13).dwg
Plot Date/Time: May 14, 2013 - 9:56am
Plotted By: bernadette.oconnor

ATTACHMENT 1

Data Usability Worksheet

Project Name : NRG Montville
Job Number : 1009644010

Prepared By: Jennifer Gailey
Date :
Validated By: Kim Napier
Date : 10/31/2014
Matrix: Groundwater

Analyte Group : MADEP
Metals
Analytical Method : MADEP EPH
EPA 6010C

Completed MADEP CAM Certification Form included: No
Laboratory ID No. : MC33903

Chain of Custody included in Data Package ? Yes
Is it Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for extraction	Allowable Holding Time for analysis	Analysis Date
9/25/2014	6010C		180 Days	9/25/14
9/25/2014	MADEP EPH	14 Days	40 Days	10/6/14

Sample temperature within QC limits: Yes, < 6.0° C

Surrogate Recovery
Are all % recoveries within the allowable range ? Yes

If No, List sample ID where range was exceeded: NA

MS/MSD

Are all MS/MSD sample recoveries within the QC limits ? Yes

If No, list sample ID, date and compound where limit was exceeded: NA

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? Yes

If no, list sample ID where range was exceeded: NA

Equipment Field Blank ID : EQ-1
Trip Blank ID : None

Method Blank: 6010 C 9/29/2014
MADEP EPH 10/6/2014

Were any compounds identified in the method blank, field blank or trip blank above detection limits ? No

If so, list Sample ID/Compound/Concentration/Units: NA

Notes:

RPD(s) for Serial Dilution for Copper, Nickel, Vanadium, Zinc are outside control limits for sample MP23657-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
No qualification necessary; Batch QC performed and as noted above results < 50X IDL

The precision for the parent and FD samples for the metals fraction for AOC3-SB-MW1 is questionable and results for both samples should be considered as estimated due to the variability of the reported results.
There were no issues with the parent and duplicate samples taken for the MADEP EPH fraction for AOC12-MW306 location since results were non-detect for all targets for both samples.
~~No validation qualifiers assigned. Data acceptable as reported.~~

Reviewed By:

New England ACCUTEST LABORATORIES

10/08/14

Technical Report for

Shaw Environmental & Infrastructure

NRG Montville Lathrop Road, Montville, CT

1009644010 PO# 892218

Accutest Job Number: MC33903

Sampling Date: 09/25/14

Report to:

vallerie.sasso@shawgrp.com

ATTN: Distribution6

Total number of pages in report: **38**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7

Table of Contents

Sample Summary

Shaw Environmental & Infrastructure

Job No: MC33903

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO# 892218

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC33903-1	09/25/14	08:00	DL	09/25/14	AQ	Equipment Blank	EQ-1
MC33903-2	09/25/14	08:50	DL	09/25/14	AQ	Ground Water	NRG-MW7
MC33903-3	09/25/14	09:45	DL	09/25/14	AQ	Ground Water	AOC3-SB4-MW2
MC33903-4	09/25/14	10:50	DL	09/25/14	AQ	Ground Water	AOC12-MW301
MC33903-5	09/25/14	11:55	DL	09/25/14	AQ	Ground Water	AOC12-MW306
MC33903-6	09/25/14	11:55	DL	09/25/14	AQ	Ground Water	AOC12-MW306 DUP
MC33903-7	09/25/14	13:15	DL	09/25/14	AQ	Ground Water	AOC3-SB1-MW1
MC33903-8	09/25/14	13:15	DL	09/25/14	AQ	Ground Water	AOC3-SB1-MW1 DUP
MC33903-9	09/25/14	15:45	DL	09/25/14	AQ	Ground Water	AOC12-MW305

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shaw Environmental & Infrastructure	**Job No**	MC33903
Site:	NRG Montville Lathrop Road, Montville, CT	**Report Date**	10/8/2014 9:13:58 AM

9 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/25/2014 and were received at Accutest on 09/25/2014 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of MC33903. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP40011

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23657

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC33872-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Copper, Nickel, Vanadium, Zinc are outside control limits for sample MP23657-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC33903).

Summary of Hits

Job Number: MC33903
Account: Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 09/25/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC33903-1	**EQ-1**					
No hits reported in this sample.						
MC33903-2	**NRG-MW7**					
Arsenic		30.7	4.0		ug/l	SW846 6010C
Zinc		41.4	20		ug/l	SW846 6010C
MC33903-3	**AOC3-SB4-MW2**					
C11-C22 Aromatics (Unadj.)		203	100		ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		200	100		ug/l	MADEP EPH REV 1.1
Arsenic		5.1	4.0		ug/l	SW846 6010C
MC33903-4	**AOC12-MW301**					
Arsenic		7.6	4.0		ug/l	SW846 6010C
Zinc		36.7	20		ug/l	SW846 6010C
MC33903-5	**AOC12-MW306**					
Arsenic		62.7	4.0		ug/l	SW846 6010C
Vanadium		27.9	10		ug/l	SW846 6010C
Zinc		47.6	20		ug/l	SW846 6010C
MC33903-6	**AOC12-MW306 DUP**					
No hits reported in this sample.						
MC33903-7	**AOC3-SB1-MW1**					
Beryllium		5.4	4.0		ug/l	SW846 6010C
Copper		59.5	25		ug/l	SW846 6010C
Nickel		130	40		ug/l	SW846 6010C
Vanadium		10.9	10		ug/l	SW846 6010C
Zinc		235	20		ug/l	SW846 6010C
MC33903-8	**AOC3-SB1-MW1 DUP**					
Arsenic		47.0	4.0		ug/l	SW846 6010C
Beryllium		16.5	4.0		ug/l	SW846 6010C
Copper		491	25		ug/l	SW846 6010C
Nickel		601	40		ug/l	SW846 6010C
Vanadium		80.6	10		ug/l	SW846 6010C

Summary of Hits

Job Number: MC33903
Account: Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 09/25/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		860	20		ug/l	SW846 6010C
MC33903-9	**AOC12-MW305**					
Arsenic		39.8	4.0		ug/l	SW846 6010C

New England ACCUTEST LABORATORIES

4

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: EQ-1
Lab Sample ID: MC33903-1
Matrix: AQ - Equipment Blank
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 09/25/14
Date Received: 09/25/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ25497.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%
3386-33-2	1-Chlorooctadecane	43%		40-140%
580-13-2	2-Bromonaphthalene	85%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EQ-1		
Lab Sample ID:	MC33903-1	**Date Sampled:**	09/25/14
Matrix:	AQ - Equipment Blank	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NRG-MW7		
Lab Sample ID:	MC33903-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ25498.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.1	ug/l	
208-96-8	Acenaphthylene	ND	5.1	ug/l	
120-12-7	Anthracene	ND	5.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	ug/l	
218-01-9	Chrysene	ND	5.1	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.1	ug/l	
206-44-0	Fluoranthene	ND	5.1	ug/l	
86-73-7	Fluorene	ND	5.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	ug/l	
91-20-3	Naphthalene	ND	5.1	ug/l	
85-01-8	Phenanthrene	ND	5.1	ug/l	
129-00-0	Pyrene	ND	5.1	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		40-140%
321-60-8	2-Fluorobiphenyl	71%		40-140%
3386-33-2	1-Chlorooctadecane	54%		40-140%
580-13-2	2-Bromonaphthalene	71%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NRG-MW7		
Lab Sample ID:	MC33903-2	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	30.7	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	41.4	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC3-SB4-MW2		
Lab Sample ID:	MC33903-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ25499.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
	C11-C22 Aromatics (Unadj.)	203	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	200	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	122%		40-140%
321-60-8	2-Fluorobiphenyl	95%		40-140%
3386-33-2	1-Chlorooctadecane	59%		40-140%
580-13-2	2-Bromonaphthalene	93%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AOC3-SB4-MW2		
Lab Sample ID:	MC33903-3	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.1	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW301		
Lab Sample ID:	MC33903-4	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	7.6	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	36.7	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW306		
Lab Sample ID:	MC33903-5	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
Method:	MADEP EPH REV 1.1 SW846 3510C	**Percent Solids:**	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ25500.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	105%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%
3386-33-2	1-Chlorooctadecane	48%		40-140%
580-13-2	2-Bromonaphthalene	86%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AOC12-MW306		
Lab Sample ID:	MC33903-5	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	62.7	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	27.9	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	47.6	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Report of Analysis

Client Sample ID: AOC12-MW306 DUP
Lab Sample ID: MC33903-6
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 09/25/14
Date Received: 09/25/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ25501.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	123%		40-140%
321-60-8	2-Fluorobiphenyl	96%		40-140%
3386-33-2	1-Chlorooctadecane	63%		40-140%
580-13-2	2-Bromonaphthalene	94%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AOC3-SB1-MW1		
Lab Sample ID:	MC33903-7	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	5.4	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	59.5	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	130	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	10.9	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	235	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC3-SB1-MW1 DUP		
Lab Sample ID:	MC33903-8	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	47.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	16.5	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	491	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	601	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	80.6	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	860	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Report of Analysis

Client Sample ID: AOC12-MW305
Lab Sample ID: MC33903-9
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 09/25/14
Date Received: 09/25/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ25502.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		40-140%
321-60-8	2-Fluorobiphenyl	79%		40-140%
3386-33-2	1-Chlorooctadecane	78%		40-140%
580-13-2	2-Bromonaphthalene	77%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AOC12-MW305		
Lab Sample ID:	MC33903-9	**Date Sampled:**	09/25/14
Matrix:	AQ - Ground Water	**Date Received:**	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	39.8	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC33903

Client / Reporting Information

Company Name: CB&I Environmental
Street Address: 150 Royall Street
City State Zip: Canton, MA 02021
Project Contact E-mail: Raymond Cadorette
Phone # Fax #: 617-589-6102
Sampler(s) Name(s) Phone #: Daniel Leahy 617-212-8276

Project Information

Project Name: NRG Montville
Street: 74 Lathrop Road
City: Uncasville, CT
Project#: 1009644010
Client PO#: 892218 NRG PRICING
Project Manager: Andrew Walker

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Reviews	Select metals (EPA 6010)	Select metals (Low Level) (EPA 6020)	EPH (MA) using CTDEEP method	LAB USE ONLY
-1	EQ-1		9/25/14	0800	DL	GW	3	2		1							1		2	
-2	NRG-MW7		9/25/14	0850		GW	3	2		1							1		2	
-3	AOC3-SB4-MW2		9/25/14	0945			3	2		1							1		2	
-4	AOC12-MW301		9/25/14	1050			1			1							1			
-5	AOC12-MW306		9/25/14	1155			3	2		1							1		2	
-6	AOC12-MW306DUP		9/25/14	1155			2	2											2	
-7	AOC3-SB1-MW1		9/25/14	1315			1			1							1			
-8	AOC3-SB1-MW1 DUP		9/25/14	1315			1			1							1			
-9	AOC12-MW305		9/25/14	1545			3	2	1								1		2	
																				17A, 6C,

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [X] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [X] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [X] EDD Format GISKey
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Metals analysis (As, Be, Cu, Ni, V and Zn)
CTDEP RCP and site specific QAPP.
Detection limits must meet CT GA standards
Detection limits must meet CT GA standards and Water Quality Criteria for NRG-MW5
Report to MDL for NRG-MW5 Only.

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		9/25/14 1600	1	2	9-25-14 1800	2
3			3	4		4
5			5			

Custody Seal #: [ ] Intact [ ] Not Intact | Preserved where applicable: [ ] | On Ice: [X] | Cooler Temp.: 0.8°C

MC33903: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC33903 **Client:** CBI **Project:** NRG MONTVILLE

Date / Time Received: 9/25/2014 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (0.8/0.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(508) 481-6200

495 Technology Center West, Bldg One
F: (508) 481-7753

Marlborough, MA 01752
www/accutest.com

MC33903: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Shaw Environmental & Infrastructure**

Project Location: **NRG Montville Lathrop Road, Montville, CT** **Project Number:** **1009644010 PO#**

Sampling Date(s): **9/25/2014**

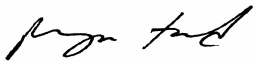
Laboratory Sample ID(s): MC33903-5, MC33903-1, MC33903-2, MC33903-3, MC33903-4, MC33903-6, MC33903-7, MC33903-8, MC33903-9

Methods: MADEP EPH REV 1.1, SW846 6010C

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☑ No ☐ NA ☐
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☑ No ☐
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  Position: Lab Director

Printed Name: Reza Tand Date: 10/8/2014

Accutest New England

Internal Sample Tracking Chronicle

Shaw Environmental & Infrastructure

Job No: MC33903

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO# 892218

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC33903-1	Collected: 25-SEP-14 08:00 By: DL		Received: 25-SEP-14 By:			
EQ-1						
MC33903-1	SW846 6010C	29-SEP-14 19:20	EAL	29-SEP-14	KR	AS,BE,CU,NI,V,ZN
MC33903-1	MADEP EPH REV 1.1	06-OCT-14 10:46	SZ	29-SEP-14	PA	BMAEPH
MC33903-2	Collected: 25-SEP-14 08:50 By: DL		Received: 25-SEP-14 By:			
NRG-MW7						
MC33903-2	SW846 6010C	29-SEP-14 19:26	EAL	29-SEP-14	KR	AS,BE,CU,NI,V,ZN
MC33903-2	MADEP EPH REV 1.1	06-OCT-14 11:11	SZ	29-SEP-14	PA	BMAEPH
MC33903-3	Collected: 25-SEP-14 09:45 By: DL		Received: 25-SEP-14 By:			
AOC3-SB4-MW2						
MC33903-3	SW846 6010C	29-SEP-14 19:32	EAL	29-SEP-14	KR	AS,BE,CU,NI,V,ZN
MC33903-3	MADEP EPH REV 1.1	06-OCT-14 11:36	SZ	29-SEP-14	PA	BMAEPH
MC33903-4	Collected: 25-SEP-14 10:50 By: DL		Received: 25-SEP-14 By:			
AOC12-MW301						
MC33903-4	SW846 6010C	29-SEP-14 19:37	EAL	29-SEP-14	KR	AS,BE,CU,NI,V,ZN
MC33903-5	Collected: 25-SEP-14 11:55 By: DL		Received: 25-SEP-14 By:			
AOC12-MW306						
MC33903-5	SW846 6010C	29-SEP-14 19:43	EAL	29-SEP-14	KR	AS,BE,CU,NI,V,ZN
MC33903-5	MADEP EPH REV 1.1	06-OCT-14 12:01	SZ	29-SEP-14	PA	BMAEPH
MC33903-6	Collected: 25-SEP-14 11:55 By: DL		Received: 25-SEP-14 By:			
AOC12-MW306 DUP						
MC33903-6	MADEP EPH REV 1.1	06-OCT-14 12:26	SZ	29-SEP-14	PA	BMAEPH
MC33903-7	Collected: 25-SEP-14 13:15 By: DL		Received: 25-SEP-14 By:			
AOC3-SB1-MW1						
MC33903-7	SW846 6010C	29-SEP-14 19:49	EAL	29-SEP-14	KR	AS,BE,CU,NI,V,ZN

Internal Sample Tracking Chronicle

Shaw Environmental & Infrastructure

Job No: MC33903

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO# 892218

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC33903-8 Collected: 25-SEP-14 13:15 By: DL AOC3-SB1-MW1 DUP				Received: 25-SEP-14 By:		
MC33903-8	SW846 6010C	29-SEP-14 19:55	EAL	29-SEP-14	KR	AS,BE,CU,NI,V,ZN
MC33903-9 Collected: 25-SEP-14 15:45 By: DL AOC12-MW305				Received: 25-SEP-14 By:		
MC33903-9	SW846 6010C	29-SEP-14 20:18	EAL	29-SEP-14	KR	AS,BE,CU,NI,V,ZN
MC33903-9	MADEP EPH REV 1.1	06-OCT-14 12:56	SZ	29-SEP-14	PA	BMAEPH

New England ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC33903
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40011-MB	BJ25494.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC33903-1, MC33903-2, MC33903-3, MC33903-5, MC33903-6, MC33903-9

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	103%	40-140%
321-60-8	2-Fluorobiphenyl	79%	40-140%
3386-33-2	1-Chlorooctadecane	63%	40-140%
580-13-2	2-Bromonaphthalene	78%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC33903
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40011-BS	BJ25495.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965
OP40011-BSD	BJ25496.D	1	10/06/14	SZ	09/29/14	OP40011	GBJ965

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC33903-1, MC33903-2, MC33903-3, MC33903-5, MC33903-6, MC33903-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	28.3	57	28.9	58	2	40-140/25
208-96-8	Acenaphthylene	50	28.3	57	29.0	58	2	40-140/25
120-12-7	Anthracene	50	34.1	68	32.3	65	5	40-140/25
56-55-3	Benzo(a)anthracene	50	39.3	79	36.5	73	7	40-140/25
50-32-8	Benzo(a)pyrene	50	34.8	70	32.1	64	8	40-140/25
205-99-2	Benzo(b)fluoranthene	50	39.2	78	36.7	73	7	40-140/25
191-24-2	Benzo(g,h,i)perylene	50	40.6	81	37.1	74	9	40-140/25
207-08-9	Benzo(k)fluoranthene	50	39.3	79	35.7	71	10	40-140/25
218-01-9	Chrysene	50	39.8	80	36.9	74	8	40-140/25
53-70-3	Dibenz(a,h)anthracene	50	42.1	84	38.0	76	10	40-140/25
206-44-0	Fluoranthene	50	35.3	71	42.6	85	19	40-140/25
86-73-7	Fluorene	50	32.6	65	31.9	64	2	40-140/25
193-39-5	Indeno(1,2,3-cd)pyrene	50	35.0	70	33.1	66	6	40-140/25
91-57-6	2-Methylnaphthalene	50	28.5	57	29.7	59	4	40-140/25
91-20-3	Naphthalene	50	28.9	58	30.5	61	5	40-140/25
85-01-8	Phenanthrene	50	35.1	70	33.3	67	5	40-140/25
129-00-0	Pyrene	50	37.5	75	35.2	70	6	40-140/25
	C11-C22 Aromatics (Unadj.)	800	647	81	607	76	6	40-140/25
	C9-C18 Aliphatics	300	180	60	187	62	4	40-140/25
	C19-C36 Aliphatics	400	315	79	312	78	1	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	100%	94%	40-140%
321-60-8	2-Fluorobiphenyl	77%	73%	40-140%
3386-33-2	1-Chlorooctadecane	66%	60%	40-140%
580-13-2	2-Bromonaphthalene	76%	72%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP40011-BS	2-Methylnaphthalene	28.5	0.064	0.2%	5.0
OP40011-BS	Naphthalene	28.9	0.13	0.4%	5.0
OP40011-BSD	2-Methylnaphthalene	29.7	0.043	0.1%	5.0
OP40011-BSD	Naphthalene	30.5	0.11	0.4%	5.0

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC33903
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

Method: MADEP EPH REV 1.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [b]	S4 [a]
MC33903-1	BJ25497.D	110	88	43	85
MC33903-2	BJ25498.D	93	71	54	71
MC33903-3	BJ25499.D	122	95	59	93
MC33903-5	BJ25500.D	105	88	48	86
MC33903-6	BJ25501.D	123	96	63	94
MC33903-9	BJ25502.D	102	79	78	77
OP40011-BS	BJ25495.D	100	77	66	76
OP40011-BSD	BJ25496.D	94	73	60	72
OP40011-MB	BJ25494.D	103	79	63	78

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 1-Chlorooctadecane	40-140%
S4 = 2-Bromonaphthalene	40-140%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

New England ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC33903
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP23657
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/29/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	18	13		
Antimony	6.0	1	2.4		
Arsenic	4.0	1.3	2.4	-0.20	<4.0
Barium	50	.43	2		
Beryllium	4.0	.31	.18	0.0	<4.0
Bismuth	50	1.1	3		
Boron	100	1.2	3.4		
Cadmium	4.0	.2	.24		
Calcium	5000	4.5	21		
Chromium	10	.37	.73		
Cobalt	50	.21	.6		
Copper	25	1.3	3.6	0.30	<25
Gold	50	1.7	1.4		
Iron	100	4.4	7.4		
Lead	5.0	.71	1.9		
Lithium	500	2.8	45		
Magnesium	5000	29	74		
Manganese	15	.18	.35		
Molybdenum	100	1.6	.81		
Nickel	40	.38	.57	-0.20	<40
Palladium	50	1.6	6.5		
Platinum	50	4.2	5.1		
Potassium	5000	81	69		
Selenium	10	1.4	2.7		
Silicon	100	7.1	21		
Silver	5.0	.33	.96		
Sodium	5000	16	22		
Sulfur	50	.32	9.7		
Strontium	10	1.9	.18		
Thallium	5.0	1.1	1.5		
Tin	100	.36	3.3		
Titanium	50	.4	.89		
Tungsten	100	2.5	5.2		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC33903
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP23657
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/29/14

Metal	RL	IDL	MDL	MB raw	final
Vanadium	10	.33	.72	0.0	<10
Zinc	20	.32	4.2	1.2	<20
Zirconium	50	.47	1.3		

Associated samples MP23657: MC33903-1, MC33903-2, MC33903-3, MC33903-4, MC33903-5, MC33903-7, MC33903-8, MC33903-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC33903
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP23657
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/29/14 09/29/14

Metal	BSP Result	Spikelot MPICP5	% Rec	QC Limits	BSD Result	Spikelot MPICP5	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	532	500	106.4	80-120	530	500	106.0	0.4	20
Barium	anr								
Beryllium	528	500	105.6	80-120	529	500	105.8	0.2	20
Bismuth									
Boron	anr								
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	490	500	98.0	80-120	483	500	96.6	1.4	20
Gold									
Iron									
Lead	anr								
Lithium	anr								
Magnesium									
Manganese									
Molybdenum									
Nickel	520	500	104.0	80-120	526	500	105.2	1.1	20
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Sulfur									
Strontium	anr								
Thallium									
Tin									
Titanium									
Tungsten									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC33903
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP23657
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			09/29/14					09/29/14	
Metal	BSP Result	Spikelot MPICP5	% Rec	QC Limits	BSD Result	Spikelot MPICP5	% Rec	BSD RPD	QC Limit
Vanadium	532	500	106.4	80-120	530	500	106.0	0.4	20
Zinc	530	500	106.0	80-120	533	500	106.6	0.6	20
Zirconium									

Associated samples MP23657: MC33903-1, MC33903-2, MC33903-3, MC33903-4, MC33903-5, MC33903-7, MC33903-8, MC33903-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC33903
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP23657
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/29/14

Metal	MC33872-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron	anr			
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	1.70	0.00	100.0(a)	0-10
Gold				
Iron				
Lead	anr			
Lithium	anr			
Magnesium				
Manganese				
Molybdenum				
Nickel	0.500	0.00	100.0(a)	0-10
Palladium				
Platinum				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Sulfur				
Strontium	anr			
Thallium				
Tin				
Titanium				
Tungsten				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC33903
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP23657
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 09/29/14

Metal	MC33872-2 Original	SDL 1:5	%DIF	QC Limits
Vanadium	0.600	0.00	100.0(a)	0-10
Zinc	2.70	11.4	322.2(a)	0-10
Zirconium				

Associated samples MP23657: MC33903-1, MC33903-2, MC33903-3, MC33903-4, MC33903-5, MC33903-7, MC33903-8, MC33903-9

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Report of Analysis

Client Sample ID:	AOC3-SB1-MW1		
Lab Sample ID:	MC33903-7	Date Sampled:	09/25/14
Matrix:	AQ - Ground Water	Date Received:	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	<4.0 UJ	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	5.4 J	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	59.5 J	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	130 J	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	10.9 J	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	235 J	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC3-SB1-MW1 DUP		
Lab Sample ID:	MC33903-8	Date Sampled:	09/25/14
Matrix:	AQ - Ground Water	Date Received:	09/25/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	47.0 J	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	16.5 J	4.0	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	491 J	25	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	601 J	40	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	80.6 J	10	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	860 J	20	ug/l	1	09/29/14	09/29/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17562
(2) Prep QC Batch: MP23657

RL = Reporting Limit

Data Usability Worksheet

Project Name : NRG Montville
Job Number : 1009644010

Prepared By: Jennifer Gailey
Date :
Validated By: Kim Napier
Date : 10/31/2014
Matrix: Groundwater

Analyte Group : MADEP
Metals
Analytical Method : MADEP EPH
EPA 6010C
EPA 6020A

Completed RCP Certification Form included: Yes
Laboratory ID No. : MC33943

Chain of Custody included in Data Package ? Yes
Is it Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for extraction	Allowable Holding Time for analysis	Analysis Date
9/26/2014	6010C		180 Days	10/7/14
9/26/2014	6020A		180 Days	10/1/14
9/26/2014	MADEP EPH	14 Days	40 Days	10/3/14

Sample temperature within QC limits: Yes, < 6.0° C

Surrogate Recovery
Are all % recoveries within the allowable range ? No

If No, List sample ID where range was exceeded: See Notes

MS/MSD

Are all MS/MSD sample recoveries within the QC limits ? No

If No, list sample ID, date and compound where limit was exceeded: See Notes

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? NA

If no, list sample ID where range was exceeded: See Notes

Equipment Field Blank ID : None
Trip Blank ID : None

Method Blank:

6010 C		10/3/2014
6020A		9/30/2014
MADEP EPH		10/3/2014

Were any compounds identified in the method blank, field blank or trip blank above detection limits ? No

If so, list Sample ID/Compound/Concentration/Units: NA

Notes:
6010C
Sample(s) MC33943-1 have compounds reported with “D” qualifiers indicating results from the diluted analysis.
No qualification necessary
RPD(s) for Serial Dilution for Vanadium, Zinc are outside control limits for sample MP23691-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
Batch QC/ Not NRG Sample/No qualification necessary
6020A
RPD(s) for Serial Dilution for Beryllium, Copper are outside control limits for sample MP23669-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
Batch QC/ Not NRG Sample/No qualification necessary
MP23669-SD1 for Vanadium, Zinc: Serial Dilution RPD acceptable due to low duplicate and sample concentrations.
Batch QC/ Not NRG Sample/No qualification necessary

Data acceptable as reported. Results flagged with "B" from lab qualified as estimated. No other qualification necessary.

Reviewed By:

New England ACCUTEST LABORATORIES

10/20/14

Technical Report for

Shaw Environmental & Infrastructure

NRG Montville Lathrop Rd. Uncasville, CT

1009644010 PO# 892218

Accutest Job Number: MC33943

Sampling Date: 09/26/14

Report to:

CB&I

jennifer.gailey@cbifederalservices.com

Total number of pages in report: **29**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7

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Sample Summary

Shaw Environmental & Infrastructure

Job No: MC33943

NRG Montville Lathrop Rd. Uncasville, CT
Project No: 1009644010 PO# 892218

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC33943-1	09/26/14	08:15	DL	09/29/14	AQ	Ground Water	NRG-MW3
MC33943-2	09/26/14	09:50	DL	09/29/14	AQ	Ground Water	NRG-MW5
MC33943-3	09/26/14	11:15	DL	09/29/14	AQ	Ground Water	AOC5-MW202

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shaw Environmental & Infrastructure	**Job No**	MC33943
Site:	NRG Montville Lathrop Rd. Uncasville, CT	**Report Date**	10/9/2014 9:45:17 AM

3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 09/26/2014 and were received at Accutest on 09/29/2014 properly preserved, at 1.4 Deg. C and intact. These Samples received an Accutest job number of MC33943. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP40018

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP23691

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC33992-3SDL were used as the QC samples for metals.
- Sample(s) MC33943-1 have compounds reported with "D" qualifiers indicating results from the diluted analysis.
- RPD(s) for Serial Dilution for Vanadium, Zinc are outside control limits for sample MP23691-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Metals By Method SW846 6020A

Matrix: AQ **Batch ID:** MP23669

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC33894-3FSDL were used as the QC samples for metals.
- Sample(s) MC33943-2 have compounds reported with "D" qualifiers indicating results from the diluted analysis.
- RPD(s) for Serial Dilution for Beryllium, Copper are outside control limits for sample MP23669-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP23669-SD1 for Vanadium, Zinc: Serial Dilution RPD acceptable due to low duplicate and sample concentrations.
- Only selected metals requested.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC33943).

Summary of Hits

Job Number: MC33943
Account: Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT
Collected: 09/26/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC33943-1	**NRG-MW3**					
Nickel		2.0 B	40	0.57	ug/l	SW846 6010C
Vanadium		5.3 B	10	0.72	ug/l	SW846 6010C
Zinc		11.0 B	20	4.2	ug/l	SW846 6010C
MC33943-2	**NRG-MW5**					
Arsenic		8.3	1.0	0.18	ug/l	SW846 6020A
Beryllium		0.098 B	1.0	0.035	ug/l	SW846 6020A
Copper		1.7 B	2.0	0.25	ug/l	SW846 6020A
Nickel		12.6	2.0	0.048	ug/l	SW846 6020A
Vanadium		4.3	4.0	0.19	ug/l	SW846 6020A
Zinc		19.7	4.0	3.3	ug/l	SW846 6020A
MC33943-3	**AOC5-MW202**					

No hits reported in this sample.

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: NRG-MW3
Lab Sample ID: MC33943-1
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 09/26/14
Date Received: 09/29/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.4 U	4.0	2.4	ug/l	1	10/03/14	10/07/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.18 U	4.0	0.18	ug/l	1	10/03/14	10/07/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	10/03/14	10/07/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	2.0 B	40	0.57	ug/l	1	10/03/14	10/07/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	5.3 B	10	0.72	ug/l	1	10/03/14	10/07/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	11.0 B	20	4.2	ug/l	1	10/03/14	10/07/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17588
(2) Prep QC Batch: MP23691

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: NRG-MW5
Lab Sample ID: MC33943-2
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 09/26/14
Date Received: 09/29/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	8.3	1.0	0.18	ug/l	2	09/30/14	10/01/14	SA	SW846 6020A [1]	SW846 3010A [2]
Beryllium	0.098 B	1.0	0.035	ug/l	2	09/30/14	10/01/14	SA	SW846 6020A [1]	SW846 3010A [2]
Copper	1.7 B	2.0	0.25	ug/l	2	09/30/14	10/01/14	SA	SW846 6020A [1]	SW846 3010A [2]
Nickel	12.6	2.0	0.048	ug/l	2	09/30/14	10/01/14	SA	SW846 6020A [1]	SW846 3010A [2]
Vanadium	4.3	4.0	0.19	ug/l	2	09/30/14	10/01/14	SA	SW846 6020A [1]	SW846 3010A [2]
Zinc	19.7	4.0	3.3	ug/l	2	09/30/14	10/01/14	SA	SW846 6020A [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17571
(2) Prep QC Batch: MP23669

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AOC5-MW202
Lab Sample ID: MC33943-3
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 09/26/14
Date Received: 09/29/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	DE6689.D	1	10/03/14	SZ	09/30/14	OP40018	GDE454
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	4.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	4.0	ug/l	
120-12-7	Anthracene	ND	5.0	4.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	4.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	4.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	4.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	4.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	4.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	4.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	4.0	ug/l	
86-73-7	Fluorene	ND	5.0	4.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	4.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	4.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	4.0	ug/l	
129-00-0	Pyrene	ND	5.0	4.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	100	ug/l	
	C9-C18 Aliphatics	ND	100	100	ug/l	
	C19-C36 Aliphatics	ND	100	100	ug/l	
	C11-C22 Aromatics	ND	100	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	106%		40-140%
321-60-8	2-Fluorobiphenyl	92%		40-140%
3386-33-2	1-Chlorooctadecane	51%		40-140%
580-13-2	2-Bromonaphthalene	89%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # MC33943

Client / Reporting Information
Company Name: CBI ENVIRONMENTAL
Street Address: 150 ROYAL ST
City, State, Zip: CANTON, MA 02021
Project Contact: RAYMOND CADORETTE
Phone #: 617-589-6102
Sampler(s) Name(s), Phone #: DAN LEAHY 617-212-8276

Project Information
Project Name: NRG MONTVILLE
Street: 74 LATHROP ROAD
City: UNCASVILLE, CT
Project#: 1009644010
Client PO#: 892218 NRG PRICING
Project Manager: ANDREW WALKER

Billing Information (If different from Report to): Company Name, Street Address, City, State, Zip, Attention, PO#

Requested Analysis (see TEST CODE sheet): SELECT METALS (EPA 6010); SELECT METALS (LOW LEVEL EPA 6010); MAEPH / USING CT DEEP METHOD

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	Select Metals (EPA 6010)	Select Metals (Low Level EPA 6010)	MAEPH (CT DEEP)	LAB USE ONLY
-1	NRG-MW3		9/26/14	0815	DL	GW	1			1							1			
-2	NRG-MW5		9/26/14	0950	DL	GW	3	2		1								1	2	
-3	AOC5-MW202		9/26/14	1115	DL	GW	2	2											2	17A, 6D,

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turnaround Time (Business days)
- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format GISKEY
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions
METALS ANALYSIS (AS, BE, CU, NI, V + ZN)
CT DEP RCP + SITE SPECIFIC QA PP STANDARD
DETECTION LIMITS MUST MEET CTGA + WATER QUALITY CRITERIA FOR NRG-MW5
REPORT TO MDL FOR NRG-MW5 ONLY

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1 [signature]	9/27/14 0630	1 Valerie Sasso (CB+I)	2 Valerie Sasso	9/29/14 12:35	2 [signature]
3 [signature]	9/29/14 1330	3 [signature]	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ / On Ice ☑ / Cooler Temp. 1.4°C

5.1

5

MC33943: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC33943 **Client:** CBI **Project:** NRG

Date / Time Received: 9/29/2014 1:30:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.4/1.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☐
2. Trip Blank listed on COC:	☐		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(508) 481-6200

495 Technology Center West, Bldg One
F: (508) 481-7753

Marlborough, MA 01752
www/accutest.com

MC33943: Chain of Custody
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Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Shaw Environmental & Infrastructure**

Project Location: **NRG Montville Lathrop Rd. Uncasville, CT** **Project Number:** **1009644010. PO#**

Sampling Date(s): **9/26/2014**

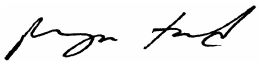
Laboratory Sample ID(s): MC33943-1, MC33943-2, MC33943-3

Methods: MADEP EPH REV 1.1, SW846 6010C, SW846 6020A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☑ No ☐ NA ☐
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  Position: Lab Director

Printed Name: Reza Tand Date: 10/9/2014

Accutest New England

Internal Sample Tracking Chronicle

Shaw Environmental & Infrastructure

Job No: MC33943

NRG Montville Lathrop Rd. Uncasville, CT
Project No: 1009644010 PO# 892218

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC33943-1	Collected: 26-SEP-14 08:15 By: DL		Received: 29-SEP-14 By: NT			
NRG-MW3						
MC33943-1	SW846 6010C	07-OCT-14 14:14	EAL	03-OCT-14	KR	AS,BE,CU,NI,V,ZN
MC33943-2	Collected: 26-SEP-14 09:50 By: DL		Received: 29-SEP-14 By: NT			
NRG-MW5						
MC33943-2	SW846 6020A	01-OCT-14 23:35	SA	30-SEP-14	KR	ASMS,BEMS,CUMS,NIMS,VMS, ZNMS
MC33943-3	Collected: 26-SEP-14 11:15 By: DL		Received: 29-SEP-14 By: NT			
AOC5-MW202						
MC33943-3	MADEP EPH REV 1.1	03-OCT-14 12:53	SZ	30-SEP-14	PA	BMAEPH

New England ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC33943
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40018-MB	DE6686.D	1	10/03/14	SZ	09/30/14	OP40018	GDE454

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC33943-3

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	4.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	4.0	ug/l	
120-12-7	Anthracene	ND	5.0	4.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	4.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	4.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	4.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	4.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	4.0	ug/l	
218-01-9	Chrysene	ND	5.0	4.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	4.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	4.0	ug/l	
86-73-7	Fluorene	ND	5.0	4.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	4.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	4.0	ug/l	
91-20-3	Naphthalene	ND	5.0	4.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	4.0	ug/l	
129-00-0	Pyrene	ND	5.0	4.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	100	ug/l	
	C9-C18 Aliphatics	ND	100	100	ug/l	
	C19-C36 Aliphatics	ND	100	100	ug/l	
	C11-C22 Aromatics	ND	100	100	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	112%	40-140%
321-60-8	2-Fluorobiphenyl	86%	40-140%
3386-33-2	1-Chlorooctadecane	86%	40-140%
580-13-2	2-Bromonaphthalene	87%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC33943
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP40018-BS	DE6687.D	1	10/03/14	SZ	09/30/14	OP40018	GDE454
OP40018-BSD	DE6688.D	1	10/03/14	SZ	09/30/14	OP40018	GDE454

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC33943-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	35.5	71	41.6	83	16	40-140/25
208-96-8	Acenaphthylene	50	32.6	65	38.5	77	17	40-140/25
120-12-7	Anthracene	50	41.7	83	43.8	88	5	40-140/25
56-55-3	Benzo(a)anthracene	50	44.6	89	46.7	93	5	40-140/25
50-32-8	Benzo(a)pyrene	50	40.2	80	41.9	84	4	40-140/25
205-99-2	Benzo(b)fluoranthene	50	43.3	87	46.2	92	6	40-140/25
191-24-2	Benzo(g,h,i)perylene	50	45.5	91	47.4	95	4	40-140/25
207-08-9	Benzo(k)fluoranthene	50	48.0	96	48.2	96	0	40-140/25
218-01-9	Chrysene	50	46.8	94	48.7	97	4	40-140/25
53-70-3	Dibenz(a,h)anthracene	50	47.0	94	49.0	98	4	40-140/25
206-44-0	Fluoranthene	50	45.1	90	46.8	94	4	40-140/25
86-73-7	Fluorene	50	35.0	70	39.9	80	13	40-140/25
193-39-5	Indeno(1,2,3-cd)pyrene	50	42.5	85	44.8	90	5	40-140/25
91-57-6	2-Methylnaphthalene	50	31.2	62	36.6	73	16	40-140/25
91-20-3	Naphthalene	50	29.5	59	34.3	69	15	40-140/25
85-01-8	Phenanthrene	50	39.1	78	41.5	83	6	40-140/25
129-00-0	Pyrene	50	44.9	90	45.9	92	2	40-140/25
	C11-C22 Aromatics (Unadj.)	800	740	93	802	100	8	40-140/25
	C9-C18 Aliphatics	300	173	58	195	65	12	40-140/25
	C19-C36 Aliphatics	400	330	83	349	87	6	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	115%	117%	40-140%
321-60-8	2-Fluorobiphenyl	94%	95%	40-140%
3386-33-2	1-Chlorooctadecane	80%	79%	40-140%
580-13-2	2-Bromonaphthalene	85%	87%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP40018-BS	2-Methylnaphthalene	31.2	0.075	0.2%	5.0
OP40018-BS	Naphthalene	29.5	0.45	1.5%	5.0
OP40018-BSD	2-Methylnaphthalene	36.6	0.13	0.4%	5.0
OP40018-BSD	Naphthalene	34.3	0.49	1.4%	5.0

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC33943
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

Method: MADEP EPH REV 1.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [b]	S4 [a]
MC33943-3	DE6689.D	106	92	51	89
OP40018-BS	DE6687.D	115	94	80	85
OP40018-BSD	DE6688.D	117	95	79	87
OP40018-MB	DE6686.D	112	86	86	87

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 1-Chlorooctadecane	40-140%
S4 = 2-Bromonaphthalene	40-140%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

New England ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23669
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 09/30/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.56	2.5		
Antimony	1.0	.017	.11		
Arsenic	1.0	.044	.18	0.55	<1.0
Barium	2.0	.022	.095		
Beryllium	1.0	.0063	.035	0.0040	<1.0
Boron	10	.14	1.9		
Cadmium	1.0	.0074	.037		
Calcium	500	18	10		
Chromium	2.0	.021	1		
Cobalt	1.0	.0045	.013		
Copper	2.0	.026	.25	-0.25	<2.0
Iron	50	.42	5.9		
Lead	1.0	.031	.043		
Magnesium	500	.33	2.8		
Manganese	2.0	.046	.28		
Molybdenum	2.0	.02	.07		
Nickel	2.0	.033	.048	-0.051	<2.0
Potassium	500	4.3	36		
Selenium	1.0	.2	.041		
Silver	1.0	.004	.021		
Sodium	500	1.3	11		
Strontium	10	.015	.037		
Thallium	1.0	.027	.078		
Tin	10	.017	.23		
Titanium	2.0	.31	.52		
Vanadium	4.0	.05	.19	2.5	<4.0
Zinc	4.0	.13	3.3	0.86	<4.0

Associated samples MP23669: MC33943-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23669
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 09/30/14 09/30/14

Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony	anr								
Arsenic	500	500	100.0	80-120	498	500	99.6	0.4	
Barium									
Beryllium	486	500	97.2	80-120	479	500	95.8	1.5	
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt									
Copper	468	500	93.6	80-120	466	500	93.2	0.4	
Iron	anr								
Lead	anr								
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	481	500	96.2	80-120	481	500	96.2	0.0	
Potassium									
Selenium	anr								
Silver	anr								
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	490	500	98.0	80-120	490	500	98.0	0.0	
Zinc	489	500	97.8	80-120	490	500	98.0	0.2	

Associated samples MP23669: MC33943-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23669
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 09/30/14

Metal	MC33894-3F Original	SDL 2:10	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	1.39	1.46	4.7	0-10
Barium				
Beryllium	0.0631	0.188	198.5(a)	0-10
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	0.139	0.00	100.0(a)	0-10
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	2.55	2.46	3.4	0-10
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium	anr			
Tin				
Titanium				
Vanadium	2.80	5.05	80.2 (b)	0-10
Zinc	9.26	11.7	25.9 (b)	0-10

Associated samples MP23669: MC33943-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial Dilution RPD acceptable due to low duplicate and sample concentrations.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23691
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				10/03/14		10/03/14		10/03/14	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Aluminum	200	7.5	13						
Antimony	6.0	.94	2.4						
Arsenic	4.0	.64	2.4	0.40	<4.0	-0.50	<4.0	-0.60	<4.0
Barium	50	.17	2						
Beryllium	4.0	.04	.18	0.0	<4.0	0.0	<4.0	0.0	<4.0
Bismuth	50	1	3						
Boron	100	1.1	3.4						
Cadmium	4.0	.16	.24						
Calcium	5000	3.8	21						
Chromium	10	.43	.73						
Cobalt	50	.19	.6						
Copper	25	.44	3.6	0.10	<25	-0.10	<25	-0.20	<25
Gold	50	.67	1.4						
Iron	100	1.9	7.4						
Lead	5.0	.83	1.9						
Lithium	500	1.5	45						
Magnesium	5000	27	74						
Manganese	15	.04	.35						
Molybdenum	100	1.6	.81						
Nickel	40	.23	.57	-0.10	<40	-0.10	<40	0.0	<40
Palladium	50	.98	6.5						
Platinum	50	2.3	5.1						
Potassium	5000	28	69						
Selenium	10	1.8	2.7						
Silicon	100	5.9	21						
Silver	5.0	.5	.96						
Sodium	5000	6.5	22						
Sulfur	50	2	9.7						
Strontium	10	.079	.18						
Thallium	5.0	1.3	1.5						
Tin	100	.74	3.3						
Titanium	50	.25	.89						
Tungsten	100	2.6	5.2						

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23691
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:				10/03/14		10/03/14		10/03/14	
Metal	RL	IDL	MDL	MB raw	final	MB raw	final	MB raw	final
Vanadium	10	.38	.72	0.0	<10	-0.10	<10	0.0	<10
Zinc	20	.24	4.2	2.8	<20	1.1	<20	1.4	<20
Zirconium	50	.19	1.3						

Associated samples MP23691: MC33943-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23691
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/03/14 10/03/14

Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	515	500	103.0	80-120	519	500	103.8	0.8	20
Barium	anr								
Beryllium	517	500	103.4	80-120	513	500	102.6	0.8	20
Bismuth									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	489	500	97.8	80-120	490	500	98.0	0.2	20
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	511	500	102.2	80-120	509	500	101.8	0.4	20
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23691
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/03/14					10/03/14	
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Vanadium	510	500	102.0	80-120	507	500	101.4	0.6	20
Zinc	517	500	103.4	80-120	518	500	103.6	0.2	20
Zirconium									

Associated samples MP23691: MC33943-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23691
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/03/14

Metal	MC33992-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	3.40	NC	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	0.00	0.00	NC	0-10
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	73.4	75.5	2.9	0-10
Palladium				
Platinum				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC33943
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP23691
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/03/14

Metal	MC33992-3 Original	SDL 1:5	%DIF	QC Limits
Vanadium	0.800	0.00	100.0(a)	0-10
Zinc	8.70	12.6	44.8 (a)	0-10
Zirconium				

Associated samples MP23691: MC33943-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Data Usability Worksheet

Project Name : NRG Montville
Job Number : 1009644010

Prepared By: Jennifer Gailey
Date :
Validated By: Kim Napier
Date : 1/5/2015
Matrix: Groundwater

Analyte Group : MADEP
Metals

Analytical Method : MADEP EPH
EPA 6010C
EPA 6020A

Completed RCP Certification Form Included: Yes

Laboratory ID No. : MC35606

Chain of Custody Included in Data Package ? Yes

Is it Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for extraction	Allowable Holding Time for analysis	Analysis Date
9/26/2014	6010C		180 Days	12/4, 12/5/2014
9/26/2014	6020A		180 Days	12/4, 12/5/2014
9/26/2014	MADEP EPH	14 Days	40 Days	12/4, 12/5/2014

Sample temperature within QC limits: Yes, < 6.0° C

Surrogate Recovery
Are all % recoveries within the allowable range ? Yes

If No, List sample ID where range was exceeded: N/A

MS/MSD

Are all MS/MSD sample recoveries within the QC limits ? Yes

If No, list sample ID, date and compound where limit was exceeded: N/A

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? NA

If no, list sample ID where range was exceeded: N/A

Equipment Field Blank ID : EB-1
Trip Blank ID : N/A

Method Blank:

6010 C	12/9/2014
6020A	12/9/2014
MADEP EPH	12/17, 12/18/2014

Were any compounds identified in the method blank, field blank or trip blank above detection limits ? No

If so, list Sample ID/Compound/Concentration/Units: NA

EB-1 has ZN results of 18.4 ug/L. All samples with positive results for ZN where concentrations < 5X the blank amount (92 ug/L) qualified U

Notes:
6010C
RPD(s) for Serial Dilution for Arsenic, Beryllium, Copper are outside control limits for sample MP24005-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
No qualification necessary

RPD(s) for MP24005-SD1 for Zinc: Serial dilution indicates possible matrix interference.
Zinc results qualified "J" for spiked sample NRG-MW7

6020A
RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP24006-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
No qualification necessary

Sample ID Corrections:
MC35606-3- AOC-SB4-MW2 should be AOC3-SB4-MW2. The lab is correcting this.

Results < RL; "J" flagged for organics and "B" flagged for inorganics should be considered as estimated and qualified "J" unless "U" qualified due to blank contamination.
Reviewed By:

Accutest Laboratories

Report of Analysis

Client Sample ID:	NRG-MW7		
Lab Sample ID:	MC35606-2	Date Sampled:	12/04/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	16.7	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.18 U	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	14.8 B J	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	0.72 U	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	115 J	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Report of Analysis

Client Sample ID:	AOC3-SB4-MW2		
Lab Sample ID:	MC35606-3	Date Sampled:	12/04/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
Method:	MADEP EPH REV 1.1 SW846 3510C	Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26043.D	1	12/18/14	AP	12/09/14	OP41178	GBJ990
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.1	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.1	2.0	ug/l	
120-12-7	Anthracene	ND	5.1	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	2.0	ug/l	
218-01-9	Chrysene	ND	5.1	2.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.1	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.1	2.0	ug/l	
86-73-7	Fluorene	ND	5.1	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	2.0	ug/l	
91-20-3	Naphthalene	3.2	5.1	2.0	ug/l	J J
85-01-8	Phenanthrene	ND	5.1	2.0	ug/l	
129-00-0	Pyrene	ND	5.1	2.0	ug/l	
	C11-C22 Aromatics (Unadj.)	136	100	71	ug/l	
	C9-C18 Aliphatics	ND	100	71	ug/l	
	C19-C36 Aliphatics	ND	100	71	ug/l	
	C11-C22 Aromatics	130	100	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		40-140%
321-60-8	2-Fluorobiphenyl	80%		40-140%
3386-33-2	1-Chlorooctadecane	49%		40-140%
580-13-2	2-Bromonaphthalene	78%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	AOC3-SB4-MW2		
Lab Sample ID:	MC35606-3	Date Sampled:	12/04/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.9 B J	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.18 U	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	0.57 U	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	0.72 U	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	13.1 B U	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	MC35606-4	Date Sampled:	12/04/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.4 U	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.40 B J	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	29.7 B J	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	1.4 B J	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	20.9 U	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	AOC12-MW306		
Lab Sample ID:	MC35606-5	Date Sampled:	12/04/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	59.9	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.70 B J	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	39.2 B J	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	53.3	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	89.1 U	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	AOC12-MW301		
Lab Sample ID:	MC35606-6	Date Sampled:	12/04/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.4 B J	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	1.2 B	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	4.7 B	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	21.1 B	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	4.3 B	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	30.5 U	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	AOC3-SB1-MW1 DUP		
Lab Sample ID:	MC35606-8	Date Sampled:	12/04/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	12.0	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	3.3 B J	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	10.8 B J	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	93.9	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	16.9	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	167	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	AOC12-MW305		
Lab Sample ID:	MC35606-9	Date Sampled:	12/05/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	30.5	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	1.2 B J	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	33.4	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	27.0 B J	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	0.90 B J	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	81.7 U	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result >= MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	NRG-MW5		
Lab Sample ID:	MC35606-10	Date Sampled:	12/05/14
Matrix:	AQ - Ground Water	Date Received:	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	9.4	1.0	0.18	ug/l	2	12/09/14	12/12/14	SA	SW846 6020A [2]	SW846 3010A [4]
Beryllium	0.055 B J	1.0	0.035	ug/l	2	12/09/14	12/12/14	SA	SW846 6020A [2]	SW846 3010A [4]
Copper	0.61 B J	2.0	0.25	ug/l	2	12/09/14	12/10/14	SA	SW846 6020A [1]	SW846 3010A [4]
Nickel	10.3	2.0	0.048	ug/l	2	12/09/14	12/10/14	SA	SW846 6020A [1]	SW846 3010A [4]
Vanadium	4.8	4.0	0.19	ug/l	2	12/12/14	12/16/14	SA	SW846 6020A [3]	SW846 3010A [5]
Zinc	15.6 U	4.0	3.3	ug/l	2	12/12/14	12/16/14	SA	SW846 6020A [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA17759
(2) Instrument QC Batch: MA17765
(3) Instrument QC Batch: MA17775
(4) Prep QC Batch: MP24006
(5) Prep QC Batch: MP24023

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shaw Environmental & Infrastructure	**Job No**	MC35606
Site:	NRG Montville Lathrop Rd. Uncasville, CT	**Report Date**	12/19/2014 12:09:34 PM

11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 12/04/2014 and 12/05/2014 and were received at Accutest on 12/05/2014 properly preserved, at 1.1 Deg. C and intact. These Samples received an Accutest job number of MC35606. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ	Batch ID: OP41167

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ	Batch ID: OP41178

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ	Batch ID: MP24005

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC35606-2MS, MC35606-2MSD, MC35606-2SDL were used as the QC samples for metals.
- Only selected metals requested.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Copper are outside control limits for sample MP24005-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- RPD(s) for MP24005-SD1 for Zinc: Serial dilution indicates possible matrix interference. J NRG-MW 7

Metals By Method SW846 6020A

Matrix: AQ	Batch ID: MP24006

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC35614-4SDL were used as the QC samples for metals.
- Only selected metals requested.
- RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP24006-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Batch QC
N, Q

Matrix: AQ	Batch ID: MP24023

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC35733-1SDL were used as the QC samples for metals.
- Only selected metals requested.

Batch QC

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC35606).

New England ACCUTEST LABORATORIES

01/05/15

Technical Report for

Shaw Environmental & Infrastructure

NRG Montville Lathrop Rd. Uncasville, CT

1009644010.02 PO#

Accutest Job Number: MC35606

Sampling Dates: 12/04/14 - 12/05/14

Report to:

Shaw Environmental Virginia Beach, VA

Catherine.Joe@cbi.com

ATTN: Catherine Joe

Total number of pages in report: **29**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5

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Sample Summary

Shaw Environmental & Infrastructure

Job No: MC35606

NRG Montville Lathrop Rd. Uncasville, CT
Project No: 1009644010.02 PO#

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC35606-1	12/04/14	07:45	DL	12/05/14	AQ	Equipment Blank	EB-1
MC35606-2	12/04/14	08:40	DL	12/05/14	AQ	Ground Water	NRG-MW7
MC35606-3	12/04/14	09:45	DL	12/05/14	AQ	Ground Water	AOC3-SB4-MW2
MC35606-4	12/04/14	10:40	DL	12/05/14	AQ	Ground Water	MW-11
MC35606-5	12/04/14	11:40	DL	12/05/14	AQ	Ground Water	AOC12-MW306
MC35606-6	12/04/14	12:50	DL	12/05/14	AQ	Ground Water	AOC12-MW301
MC35606-7	12/04/14	14:10	DL	12/05/14	AQ	Ground Water	AOC3-SB1-MW1
MC35606-8	12/04/14	14:10	DL	12/05/14	AQ	Ground Water	AOC3-SB1-MW1 DUP
MC35606-9	12/05/14	08:45	DL	12/05/14	AQ	Ground Water	AOC12-MW305
MC35606-10	12/05/14	10:25	DL	12/05/14	AQ	Ground Water	NRG-MW5
MC35606-11	12/05/14	10:25	DL	12/05/14	AQ	Ground Water	NRG-MW5 DUP

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shaw Environmental & Infrastructure	**Job No**	MC35606
Site:	NRG Montville Lathrop Rd. Uncasville, CT	**Report Date**	12/19/2014 12:09:34 PM

11 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 12/04/2014 and 12/05/2014 and were received at Accutest on 12/05/2014 properly preserved, at 1.1 Deg. C and intact. These Samples received an Accutest job number of MC35606. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP41167

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** OP41178

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP24005

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC35606-2MS, MC35606-2MSD, MC35606-2SDL were used as the QC samples for metals.
- Only selected metals requested.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Copper are outside control limits for sample MP24005-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- RPD(s) for MP24005-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Metals By Method SW846 6020A

Matrix: AQ **Batch ID:** MP24006

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC35614-4SDL were used as the QC samples for metals.
- Only selected metals requested.
- RPD(s) for Serial Dilution for Arsenic are outside control limits for sample MP24006-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: AQ **Batch ID:** MP24023

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC35733-1SDL were used as the QC samples for metals.
- Only selected metals requested.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC35606).

Summary of Hits

Job Number: MC35606
Account: Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT
Collected: 12/04/14 thru 12/05/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC35606-1	**EB-1**					
Zinc		18.4 B	20	4.2	ug/l	SW846 6010C
MC35606-2	**NRG-MW7**					
Arsenic		16.7	4.0	2.4	ug/l	SW846 6010C
Nickel		14.8 B	40	0.57	ug/l	SW846 6010C
Zinc		115	20	4.2	ug/l	SW846 6010C
MC35606-3	**AOC3-SB4-MW2**					
Naphthalene		3.2 J	5.1	2.0	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics (Unadj.)		136	100	71	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		130	100	71	ug/l	MADEP EPH REV 1.1
Arsenic		2.9 B	4.0	2.4	ug/l	SW846 6010C
Zinc		13.1 B	20	4.2	ug/l	SW846 6010C
MC35606-4	**MW-11**					
Beryllium		0.40 B	4.0	0.18	ug/l	SW846 6010C
Nickel		29.7 B	40	0.57	ug/l	SW846 6010C
Vanadium		1.4 B	10	0.72	ug/l	SW846 6010C
Zinc		20.9	20	4.2	ug/l	SW846 6010C
MC35606-5	**AOC12-MW306**					
Arsenic		59.9	4.0	2.4	ug/l	SW846 6010C
Beryllium		0.70 B	4.0	0.18	ug/l	SW846 6010C
Nickel		39.2 B	40	0.57	ug/l	SW846 6010C
Vanadium		53.3	10	0.72	ug/l	SW846 6010C
Zinc		89.1	20	4.2	ug/l	SW846 6010C
MC35606-6	**AOC12-MW301**					
Arsenic		3.4 B	4.0	2.4	ug/l	SW846 6010C
Beryllium		1.2 B	4.0	0.18	ug/l	SW846 6010C
Copper		4.7 B	25	3.6	ug/l	SW846 6010C
Nickel		21.1 B	40	0.57	ug/l	SW846 6010C
Vanadium		4.3 B	10	0.72	ug/l	SW846 6010C
Zinc		30.5	20	4.2	ug/l	SW846 6010C
MC35606-7	**AOC3-SB1-MW1**					
Arsenic		11.1	4.0	2.4	ug/l	SW846 6010C

Summary of Hits

Job Number: MC35606
Account: Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Rd. Uncasville, CT
Collected: 12/04/14 thru 12/05/14

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Beryllium		5.1	4.0	0.18	ug/l	SW846 6010C
Copper		91.0	25	3.6	ug/l	SW846 6010C
Nickel		168	40	0.57	ug/l	SW846 6010C
Vanadium		23.2	10	0.72	ug/l	SW846 6010C
Zinc		267	20	4.2	ug/l	SW846 6010C
MC35606-8	**AOC3-SB1-MW1 DUP**					
Arsenic		12.0	4.0	2.4	ug/l	SW846 6010C
Beryllium		3.3 B	4.0	0.18	ug/l	SW846 6010C
Copper		10.8 B	25	3.6	ug/l	SW846 6010C
Nickel		93.9	40	0.57	ug/l	SW846 6010C
Vanadium		16.9	10	0.72	ug/l	SW846 6010C
Zinc		167	20	4.2	ug/l	SW846 6010C
MC35606-9	**AOC12-MW305**					
Arsenic		30.5	4.0	2.4	ug/l	SW846 6010C
Beryllium		1.2 B	4.0	0.18	ug/l	SW846 6010C
Copper		33.4	25	3.6	ug/l	SW846 6010C
Nickel		27.0 B	40	0.57	ug/l	SW846 6010C
Vanadium		0.90 B	10	0.72	ug/l	SW846 6010C
Zinc		81.7	20	4.2	ug/l	SW846 6010C
MC35606-10	**NRG-MW5**					
Arsenic		9.4	1.0	0.18	ug/l	SW846 6020A
Beryllium		0.055 B	1.0	0.035	ug/l	SW846 6020A
Copper		0.61 B	2.0	0.25	ug/l	SW846 6020A
Nickel		10.3	2.0	0.048	ug/l	SW846 6020A
Vanadium		4.8	4.0	0.19	ug/l	SW846 6020A
Zinc		15.6	4.0	3.3	ug/l	SW846 6020A
MC35606-11	**NRG-MW5 DUP**					
No hits reported in this sample.						

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: EB-1
Lab Sample ID: MC35606-1
Matrix: AQ - Equipment Blank
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26008.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	2.0	ug/l	
120-12-7	Anthracene	ND	5.0	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	2.0	ug/l	
218-01-9	Chrysene	ND	5.0	2.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	2.0	ug/l	
86-73-7	Fluorene	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	2.0	ug/l	
129-00-0	Pyrene	ND	5.0	2.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	52%		40-140%
321-60-8	2-Fluorobiphenyl	52%		40-140%
3386-33-2	1-Chlorooctadecane	48%		40-140%
580-13-2	2-Bromonaphthalene	52%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EB-1
Lab Sample ID: MC35606-1
Matrix: AQ - Equipment Blank
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.4 U	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.18 U	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	0.57 U	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	0.72 U	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	18.4 B	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: NRG-MW7
Lab Sample ID: MC35606-2
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26009.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	2.0	ug/l	
120-12-7	Anthracene	ND	5.0	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	2.0	ug/l	
218-01-9	Chrysene	ND	5.0	2.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	2.0	ug/l	
86-73-7	Fluorene	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	2.0	ug/l	
129-00-0	Pyrene	ND	5.0	2.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	59%		40-140%
321-60-8	2-Fluorobiphenyl	60%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%
580-13-2	2-Bromonaphthalene	59%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: NRG-MW7
Lab Sample ID: MC35606-2
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	16.7	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.18 U	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	14.8 B	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	0.72 U	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	115	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AOC3-SB4-MW2
Lab Sample ID: MC35606-3
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26043.D	1	12/18/14	AP	12/09/14	OP41178	GBJ990
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.1	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.1	2.0	ug/l	
120-12-7	Anthracene	ND	5.1	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.1	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.1	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.1	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.1	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.1	2.0	ug/l	
218-01-9	Chrysene	ND	5.1	2.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.1	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.1	2.0	ug/l	
86-73-7	Fluorene	ND	5.1	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.1	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.1	2.0	ug/l	
91-20-3	Naphthalene	3.2	5.1	2.0	ug/l	J
85-01-8	Phenanthrene	ND	5.1	2.0	ug/l	
129-00-0	Pyrene	ND	5.1	2.0	ug/l	
	C11-C22 Aromatics (Unadj.)	136	100	71	ug/l	
	C9-C18 Aliphatics	ND	100	71	ug/l	
	C19-C36 Aliphatics	ND	100	71	ug/l	
	C11-C22 Aromatics	130	100	71	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		40-140%
321-60-8	2-Fluorobiphenyl	80%		40-140%
3386-33-2	1-Chlorooctadecane	49%		40-140%
580-13-2	2-Bromonaphthalene	78%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AOC3-SB4-MW2
Lab Sample ID: MC35606-3
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.9 B	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.18 U	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	0.57 U	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	0.72 U	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	13.1 B	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: MW-11
Lab Sample ID: MC35606-4
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.4 U	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.40 B	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	29.7 B	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	1.4 B	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	20.9	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AOC12-MW306
Lab Sample ID: MC35606-5
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26010.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	2.0	ug/l	
120-12-7	Anthracene	ND	5.0	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	2.0	ug/l	
218-01-9	Chrysene	ND	5.0	2.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	2.0	ug/l	
86-73-7	Fluorene	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	2.0	ug/l	
129-00-0	Pyrene	ND	5.0	2.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	52%		40-140%
321-60-8	2-Fluorobiphenyl	51%		40-140%
3386-33-2	1-Chlorooctadecane	41%		40-140%
580-13-2	2-Bromonaphthalene	51%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AOC12-MW306
Lab Sample ID: MC35606-5
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	59.9	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	0.70 B	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	3.6 U	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	39.2 B	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	53.3	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	89.1	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AOC12-MW301
Lab Sample ID: MC35606-6
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	3.4 B	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	1.2 B	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	4.7 B	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	21.1 B	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	4.3 B	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	30.5	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	AOC3-SB1-MW1		
Lab Sample ID:	MC35606-7	**Date Sampled:**	12/04/14
Matrix:	AQ - Ground Water	**Date Received:**	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	11.1	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	5.1	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	91.0	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	168	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	23.2	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	267	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AOC3-SB1-MW1 DUP
Lab Sample ID: MC35606-8
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/04/14
Date Received: 12/05/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	12.0	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	3.3 B	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	10.8 B	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	93.9	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	16.9	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	167	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: AOC12-MW305
Lab Sample ID: MC35606-9
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/05/14
Date Received: 12/05/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26011.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	2.0	ug/l	
120-12-7	Anthracene	ND	5.0	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	2.0	ug/l	
218-01-9	Chrysene	ND	5.0	2.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	2.0	ug/l	
86-73-7	Fluorene	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	2.0	ug/l	
129-00-0	Pyrene	ND	5.0	2.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	52%		40-140%
321-60-8	2-Fluorobiphenyl	54%		40-140%
3386-33-2	1-Chlorooctadecane	43%		40-140%
580-13-2	2-Bromonaphthalene	53%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AOC12-MW305
Lab Sample ID: MC35606-9
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/05/14
Date Received: 12/05/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	30.5	4.0	2.4	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	1.2 B	4.0	0.18	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	33.4	25	3.6	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	27.0 B	40	0.57	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	0.90 B	10	0.72	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	81.7	20	4.2	ug/l	1	12/09/14	12/10/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17758
(2) Prep QC Batch: MP24005

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: NRG-MW5
Lab Sample ID: MC35606-10
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/05/14
Date Received: 12/05/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26012.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	2.0	ug/l	
120-12-7	Anthracene	ND	5.0	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	2.0	ug/l	
218-01-9	Chrysene	ND	5.0	2.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	2.0	ug/l	
86-73-7	Fluorene	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	2.0	ug/l	
129-00-0	Pyrene	ND	5.0	2.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	48%		40-140%
321-60-8	2-Fluorobiphenyl	48%		40-140%
3386-33-2	1-Chlorooctadecane	41%		40-140%
580-13-2	2-Bromonaphthalene	47%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	NRG-MW5		
Lab Sample ID:	MC35606-10	**Date Sampled:**	12/05/14
Matrix:	AQ - Ground Water	**Date Received:**	12/05/14
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Rd. Uncasville, CT		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	9.4	1.0	0.18	ug/l	2	12/09/14	12/12/14	SA	SW846 6020A [2]	SW846 3010A [4]
Beryllium	0.055 B	1.0	0.035	ug/l	2	12/09/14	12/12/14	SA	SW846 6020A [2]	SW846 3010A [4]
Copper	0.61 B	2.0	0.25	ug/l	2	12/09/14	12/10/14	SA	SW846 6020A [1]	SW846 3010A [4]
Nickel	10.3	2.0	0.048	ug/l	2	12/09/14	12/10/14	SA	SW846 6020A [1]	SW846 3010A [4]
Vanadium	4.8	4.0	0.19	ug/l	2	12/12/14	12/16/14	SA	SW846 6020A [3]	SW846 3010A [5]
Zinc	15.6	4.0	3.3	ug/l	2	12/12/14	12/16/14	SA	SW846 6020A [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA17759
(2) Instrument QC Batch: MA17765
(3) Instrument QC Batch: MA17775
(4) Prep QC Batch: MP24006
(5) Prep QC Batch: MP24023

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID: NRG-MW5 DUP
Lab Sample ID: MC35606-11
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 12/05/14
Date Received: 12/05/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26013.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	5.0	2.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	2.0	ug/l	
120-12-7	Anthracene	ND	5.0	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	2.0	ug/l	
218-01-9	Chrysene	ND	5.0	2.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	2.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	2.0	ug/l	
86-73-7	Fluorene	ND	5.0	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	2.0	ug/l	
129-00-0	Pyrene	ND	5.0	2.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	70	ug/l	
	C9-C18 Aliphatics	ND	100	70	ug/l	
	C19-C36 Aliphatics	ND	100	70	ug/l	
	C11-C22 Aromatics	ND	100	70	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	45%		40-140%
321-60-8	2-Fluorobiphenyl	53%		40-140%
3386-33-2	1-Chlorooctadecane	40%		40-140%
580-13-2	2-Bromonaphthalene	52%		40-140%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC35606

Client / Reporting Information
Company Name: CB&I Environmental
Street Address: 150 Royall Street
City: Canton, State: MA, Zip: 02021
Project Contact: Raymond Cadorette | E-mail:
Phone #: 617-589-6102 | Fax #:
Sampler(s) Name(s): Daniel Leahy | Phone #: 617-212-8276

Project Information
Project Name: NRG Montville
Street: Lathrop Road
City: Uncasville, CT
Project#: 1009644010-02
Client PO#: 904857 (NRG Pricing)
Project Manager: Andrew Walker

Billing Information (If different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet): Select Metals (EPA 6010); Select Metals (Low Level) (EPA 6020); MA EPH using CTDEP / MA ...

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	Select Metals (EPA 6010)	Select Metals (Low Level) (EPA 6020)	MA EPH	LAB USE ONLY
-1	EB-1		12/4/14	0745	DL	GW	3			1		2					1		2	
-2	NRG-MW7		12/4/14	0840	↓	↓	3			1		2					1		2	
-3	AOC-SB4-MW2		12/4/14	0945			3			1		2					1		2	
-4	MW-11		12/4/14	1040			1			1							1			
-5	AOC12-MW306		12/4/14	1140			3			1		2					1		2	
-6	AOC12-MW301		12/4/14	1250			1			1							1			
-7	AOC3-SB1-MW1		12/4/14	1410			1			1							1			
-8	AOC3-SB1-MW1 DUP		12/4/14	1410			1			1							1			
-9	AOC12-MW305		12/4/14	0845			3			1		2					1		2	
-10	NRG-MW5		12/5/14	1025			3			1		2					✱	1	2	
-11	NRG-MW5 DUP		12/5/14	1025	↓	↓	2					2							2	6F, 16D

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turnaround Time (Business days)
- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] CT RCP
- [x] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format GISKey
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions
Metals analysis (As,Be,Cu,Ni,V & Zn)
CTDEP RCP and site specific QAPP.
Detection limits must meet CT GA standard.
Detection limits must meet CT GA standards and Water Quality Criteria for NRG-MW-5.
Report to MDL for NRG-MW-5 only.

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	12/5/14 1130	1 [signature]	2 [signature]	12-5-14 1810	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3 [signature]	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp. 1.1

5.1

5

MC35606: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC35606 **Client:** CBI **Project:** 904857/MONTVILLE

Date / Time Received: 12/5/2014 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.1/1.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(508) 481-6200

495 Technology Center West, Bldg One
F: (508) 481-7753

Marlborough, MA 01752
www/accutest.com

MC35606: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **Shaw Environmental & Infrastructure**

Project Location: **NRG Montville Lathrop Rd. Uncasville, CT** **Project Number:** **1009644010. PO#**

Sampling Date(s): **12/4/2014**

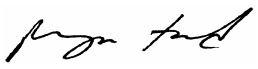
Laboratory Sample ID(s): MC35606-1, MC35606-2, MC35606-3, MC35606-4, MC35606-5, MC35606-6, MC35606-7, MC35606-8, MC35606-9, MC35606-10, MC35606-11

Methods: MADEP EPH REV 1.1, SW846 6010C, SW846 6020A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  Position: Lab Director

Printed Name: Reza Tand Date: 12/19/2014

Accutest New England

Data Usability Worksheet

Project Name : NRG Montville
Job Number : 1009644010

Prepared By: Jennifer Gailey
Date :
Valicated By: Kim Napier
Date : 1/5/2015
Matrix: Groundwater

Analyte Group : MADEP
Metals
Analytical Method : MADEP EPH
EPA 6010C

Completed RCP Certification Form included: Yes
Laboratory ID No. : MC35624

Chain of Custody included in Data Package ? Yes
Is it Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for extraction	Allowable Holding Time for analysis	Analysis Date
9/26/2014	6010C		180 Days	12/5/14
9/26/2014	MADEP EPH	14 Days	40 Days	12/5/14

Sample temperature within QC limits: Yes, < 6.0° C

Surrogate Recovery
Are all % recoveries within the allowable range ? Yes

If No, List sample ID where range was exceeded: N/A

MS/MSD

Are all MS/MSD sample recoveries within the QC limits ? Yes

If No, list sample ID, date and compound where limit was exceeded: N/A

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC limits ? NA

If no, list sample ID where range was exceeded: N/A

Equipment Field Blank ID : N/A
Trip Blank ID : N/A

Method Blank:

6020A	12/10/2014
MADEP EPH	12/17/2014

Were any compounds identified in the method blank, field blank or trip blank above detection limits ? No

If so, list Sample ID/Compound/Concentration/Units: NA

Notes:
6010C
RPD(s) for Serial Dilution for Vanadium, Zinc are outside control limits for sample MP24009-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
No qualification necessary; batch QC, not NRG sample and results < 50X IDL.

Reviewed By:

New England ACCUTEST LABORATORIES

12/22/14

Technical Report for

Shaw Environmental & Infrastructure

NRG Montville Lathrop Road, Montville, CT

1009644010-2 PO#904857 PO#904857

Accutest Job Number: MC35624

Sampling Date: 12/05/14

Report to:

CB&I
150 Royall Street
Canton, MA 02021
Raymond.Cadorette@shawgrp.com

ATTN: Raymond Cadorette

Total number of pages in report: **24**

NELAP ACCREDITED TNI LABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Sections: 1 2 3 4 5 6 7

Table of Contents

Sample Summary

Shaw Environmental & Infrastructure

Job No: MC35624

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010-2 PO#904857 PO#904857

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC35624-1	12/05/14	12:40	DL	12/08/14	AQ	Ground Water	AOC5-MW202

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Shaw Environmental & Infrastructure	**Job No**	MC35624
Site:	NRG Montville Lathrop Road, Montville, CT	**Report Date**	12/22/2014 9:18:27 AM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 12/05/2014 and were received at Accutest on 12/08/2014 properly preserved, at 1.7 Deg. C and intact. These Samples received an Accutest job number of MC35624. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP41167

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP24009

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC35558-4FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Vanadium, Zinc are outside control limits for sample MP24009-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

Accutest may not have met all requested limits due to methodology limitations, sample matrix, dilutions, or percents solids.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC35624).

Summary of Hits

Job Number: MC35624
Account: Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 12/05/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC35624-1	**AOC5-MW202**					

No hits reported in this sample.

New England ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: AOC5-MW202
Lab Sample ID: MC35624-1
Matrix: AQ - Ground Water
Method: MADEP EPH REV 1.1 SW846 3510C
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 12/05/14
Date Received: 12/08/14
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BJ26014.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		40-140%
321-60-8	2-Fluorobiphenyl	59%		40-140%
3386-33-2	1-Chlorooctadecane	43%		40-140%
580-13-2	2-Bromonaphthalene	57%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: AOC5-MW202
Lab Sample ID: MC35624-1
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 12/05/14
Date Received: 12/08/14
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	12/10/14	12/11/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	12/10/14	12/11/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	12/10/14	12/11/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	12/10/14	12/11/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	12/10/14	12/11/14	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	12/10/14	12/11/14	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA17761
(2) Prep QC Batch: MP24009

RL = Reporting Limit

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC35624

Client / Reporting Information

Company Name: CB&I Environmental
Street Address: 150 Royall Street
City: Canton, MA State: | Zip: 02021
Project Contact: Raymond Cadorette E-mail:
Phone #: 617-589-6102 Fax #:
Sampler(s) Name(s): Daniel Leahy Phone #: 617-212-8276

Project Information

Project Name: NRG Montville
Street: Lathrop Road
City: Uncasville, CT
Project#: 1009644010-02
Client PO#: 904857 (NRG pricing)
Project Manager: Andrew Walker

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	Select Metals (EPA 6010)	Select Metals (Low Level) (EPA 6020)	MA EPH	LAB USE ONLY
-1	AOC5-MW302		12/5/14	1240	DL	GW	3			1		2					1		2	

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

16C
6F

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [X] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [X] EDD Format GISKey
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

Metals analysis (As, Be, Cu, Ni, V and Zn)
CTDEP RCP and site specific QAPP.
Detection limits must meet CT GA standard.
Detection limits must meet CT GA standards and Water Quality Criteria for NRG-MW-5.
Report to MDL for NRG-MW-5 only.

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		12/6/14 0830			12/8/14 1755	
2						
3	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
4						
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable / On Ice / Cooler Temp.

5.1 5

MC35624: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC35624 **Client:** CB&I **Project:** NRG

Date / Time Received: 12/8/2014 5:55:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (1.7/1.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	G1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(508) 481-6200

495 Technology Center West, Bldg One
F: (508) 481-7753

Marlborough, MA 01752
www/accutest.com

MC35624: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: Accutest New England **Client:** Shaw Environmental & Infrastructure

Project Location: NRG Montville Lathrop Road, Montville, CT **Project Number:** 1009644010 PO#

Sampling Date(s): 12/5/2014

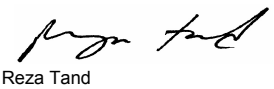
Laboratory Sample ID(s): MC35624-1

Methods: MADEP EPH REV 1.1, SW846 6010C

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☑ No ☐ NA ☐
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☑ No ☐
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☐ No ☑
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  Position: Lab Director

Printed Name: Reza Tand Date: 12/22/2014

Accutest New England

Internal Sample Tracking Chronicle

Shaw Environmental & Infrastructure

Job No: MC35624

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010-2 PO#904857 PO#904857

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC35624-1 Collected: 05-DEC-14 12:40 By: DL Received: 08-DEC-14 By: NT AOC5-MW202						
MC35624-1	SW846 6010C	11-DEC-14 15:13	EAL	10-DEC-14	EM	AS,BE,CU,NI,V,ZN
MC35624-1	MADEP EPH REV 1.1	17-DEC-14 15:32	AP	09-DEC-14	PA	BMAEPH

New England ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: MC35624
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41167-MB	BJ26005.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC35624-1

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
	C11-C22 Aromatics (Unadj.)	ND	100	ug/l	
	C9-C18 Aliphatics	ND	100	ug/l	
	C19-C36 Aliphatics	ND	100	ug/l	
	C11-C22 Aromatics	ND	100	ug/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	63%	40-140%
321-60-8	2-Fluorobiphenyl	69%	40-140%
3386-33-2	1-Chlorooctadecane	54%	40-140%
580-13-2	2-Bromonaphthalene	67%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC35624
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41167-BS	BJ26006.D	1	12/17/14	AP	12/09/14	OP41167	GBJ989
OP41167-BSD	BJ26031.D	1	12/18/14	AP	12/09/14	OP41167	GBJ990

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 1.1

MC35624-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	50	25.1	50	20.8	42	19	40-140/25
208-96-8	Acenaphthylene	50	25.4	51	20.9	42	19	40-140/25
120-12-7	Anthracene	50	31.8	64	28.3	57	12	40-140/25
56-55-3	Benzo(a)anthracene	50	33.2	66	31.4	63	6	40-140/25
50-32-8	Benzo(a)pyrene	50	28.9	58	28.5	57	1	40-140/25
205-99-2	Benzo(b)fluoranthene	50	32.6	65	31.9	64	2	40-140/25
191-24-2	Benzo(g,h,i)perylene	50	32.4	65	32.2	64	1	40-140/25
207-08-9	Benzo(k)fluoranthene	50	31.2	62	29.9	60	4	40-140/25
218-01-9	Chrysene	50	33.3	67	31.4	63	6	40-140/25
53-70-3	Dibenz(a,h)anthracene	50	31.1	62	36.0	72	15	40-140/25
206-44-0	Fluoranthene	50	33.3	67	29.9	60	11	40-140/25
86-73-7	Fluorene	50	28.3	57	23.9	48	17	40-140/25
193-39-5	Indeno(1,2,3-cd)pyrene	50	29.4	59	27.6	55	6	40-140/25
91-57-6	2-Methylnaphthalene	50	25.7	51	20.5	41	23	40-140/25
91-20-3	Naphthalene	50	26.6	53	21.1	42	23	40-140/25
85-01-8	Phenanthrene	50	29.8	60	26.4	53	12	40-140/25
129-00-0	Pyrene	50	31.8	64	29.2	58	9	40-140/25
	C11-C22 Aromatics (Unadj.)	800	551	69	518	65	6	40-140/25
	C9-C18 Aliphatics	300	151	50	167	56	10	40-140/25
	C19-C36 Aliphatics	400	269	67	323	81	18	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	71%	61%	40-140%
321-60-8	2-Fluorobiphenyl	72%	63%	40-140%
3386-33-2	1-Chlorooctadecane	56%	64%	40-140%
580-13-2	2-Bromonaphthalene	70%	61%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP41167-BS	2-Methylnaphthalene	25.7	0.027	0.1%	5.0
OP41167-BS	Naphthalene	26.6	0.39	1.4%	5.0
OP41167-BSD	2-Methylnaphthalene	20.5	0.026	0.1%	5.0
OP41167-BSD	Naphthalene	21.1	0.45	2.1%	5.0

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC35624
Account: FDG Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

Method: MADEP EPH REV 1.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [a]	S3 [b]	S4 [a]
MC35624-1	BJ26014.D	56	59	43	57
OP41167-BS	BJ26006.D	71	72	56	70
OP41167-BSD	BJ26031.D	61	63	64	61
OP41167-MB	BJ26005.D	63	69	54	67

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	40-140%
S2 = 2-Fluorobiphenyl	40-140%
S3 = 1-Chlorooctadecane	40-140%
S4 = 2-Bromonaphthalene	40-140%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

New England ACCUTEST LABORATORIES

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC35624
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP24009
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/10/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.4	13		
Antimony	6.0	.9	2.4		
Arsenic	4.0	1.1	2.4	0.30	<4.0
Barium	50	.28	2		
Beryllium	4.0	.098	.18	0.0	<4.0
Bismuth	50	.96	3		
Boron	100	1.3	3.4		
Cadmium	4.0	.18	.24		
Calcium	5000	5.1	21		
Chromium	10	.23	.73		
Cobalt	50	.25	.6		
Copper	25	.76	3.6	0.40	<25
Gold	50	.88	1.4		
Iron	100	2.4	7.4		
Lead	5.0	.6	1.9		
Lithium	500	1.4	45		
Magnesium	5000	15	74		
Manganese	15	.19	.35		
Molybdenum	100	1.2	.81		
Nickel	40	.27	.57	-0.30	<40
Palladium	50	.91	6.5		
Platinum	50	3.1	5.1		
Potassium	5000	29	69		
Selenium	10	1.4	2.7		
Silicon	100	2.4	21		
Silver	5.0	2.2	.96		
Sodium	5000	6.7	22		
Sulfur	50	2.4	9.7		
Strontium	10	.04	.18		
Thallium	5.0	1	1.5		
Tin	100	.44	3.3		
Titanium	50	.4	.89		
Tungsten	100	2.1	5.2		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC35624
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP24009
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/10/14

Metal	RL	IDL	MDL	MB raw	final
Vanadium	10	.3	.72	-0.20	<10
Zinc	20	.12	4.2	7.0	<20
Zirconium	50	.19	1.3		

Associated samples MP24009: MC35624-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC35624
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP24009
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:		12/10/14				12/10/14			
Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Aluminum	anr								
Antimony	anr								
Arsenic	516	500	103.2	80-120	497	500	99.4	3.8	20
Barium	anr								
Beryllium	536	500	107.2	80-120	521	500	104.2	2.8	20
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	510	500	102.0	80-120	492	500	98.4	3.6	20
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	517	500	103.4	80-120	498	500	99.6	3.7	20
Palladium									
Platinum									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC35624
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP24009
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/10/14 12/10/14

Metal	BSP Result	Spikelot MPICP	% Rec	QC Limits	BSD Result	Spikelot MPICP	% Rec	BSD RPD	QC Limit
Vanadium	508	500	101.6	80-120	489	500	97.8	3.8	20
Zinc	529	500	105.8	80-120	510	500	102.0	3.7	20
Zirconium									

Associated samples MP24009: MC35624-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC35624
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP24009
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/10/14

Metal	MC35558-4F Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	0.00	0.00	NC	0-10
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	0.00	0.00	NC	0-10
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	14.2	13.5	4.9	0-10
Palladium				
Platinum				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC35624
Account: FDG - Shaw Environmental & Infrastructure
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP24009
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 12/10/14

Metal	MC35558-4F Original	SDL 1:5	%DIF	QC Limits
Vanadium	0.500	0.00	100.0(a)	0-10
Zinc	5.70	6.50	14.0 (a)	0-10
Zirconium				

Associated samples MP24009: MC35624-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).